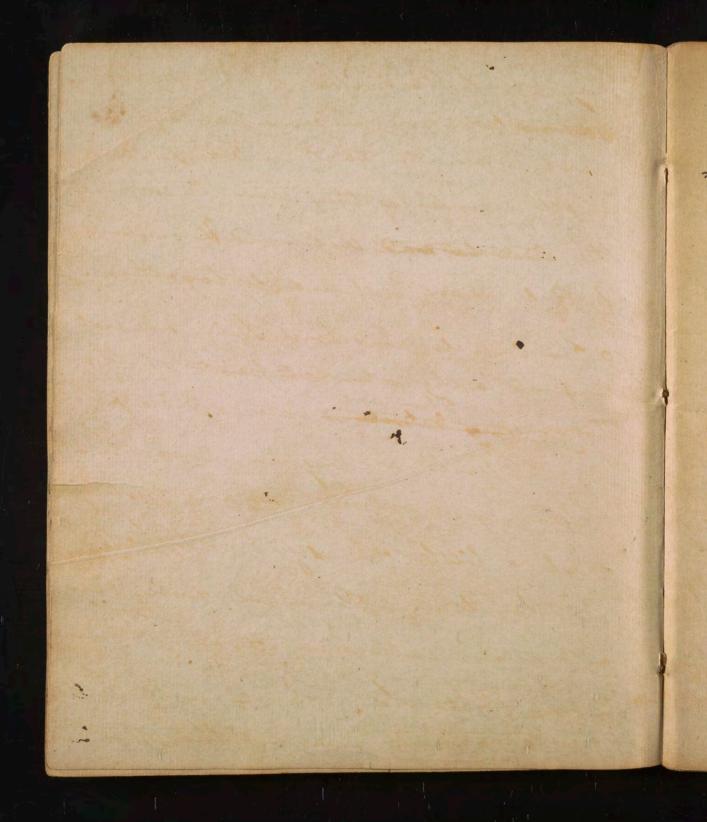
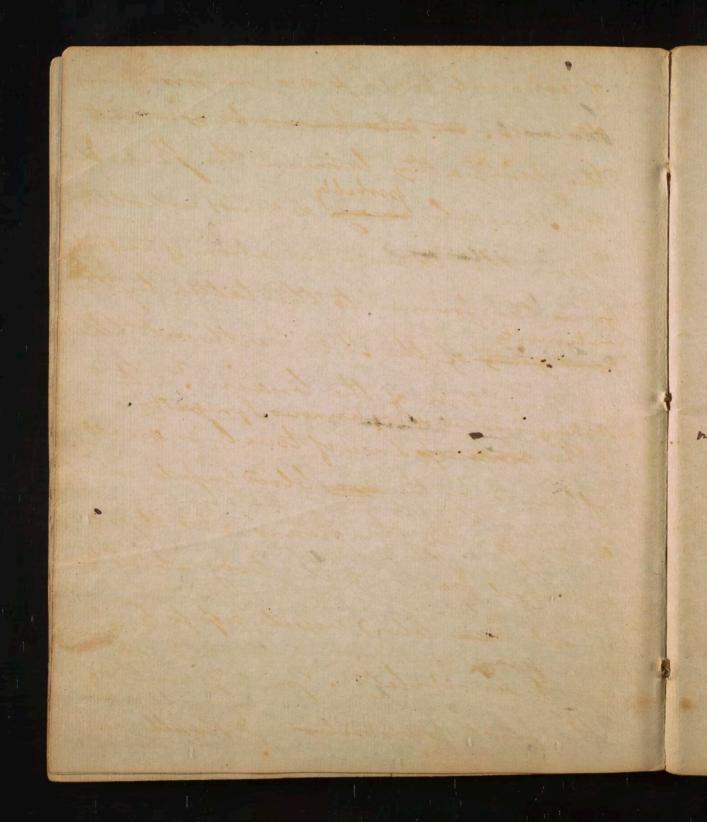


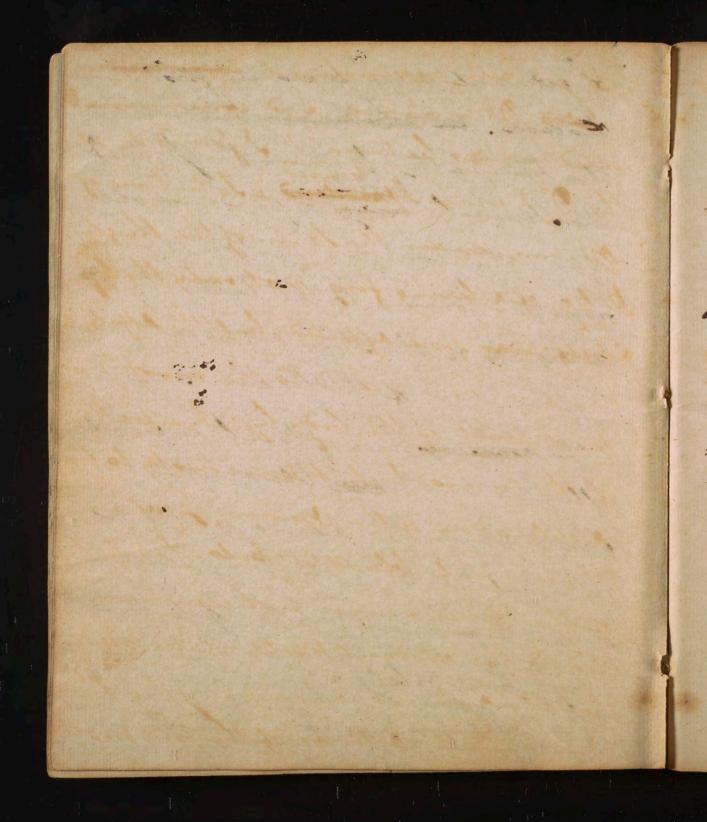
South cont?_ Faste 331. Smelling 340



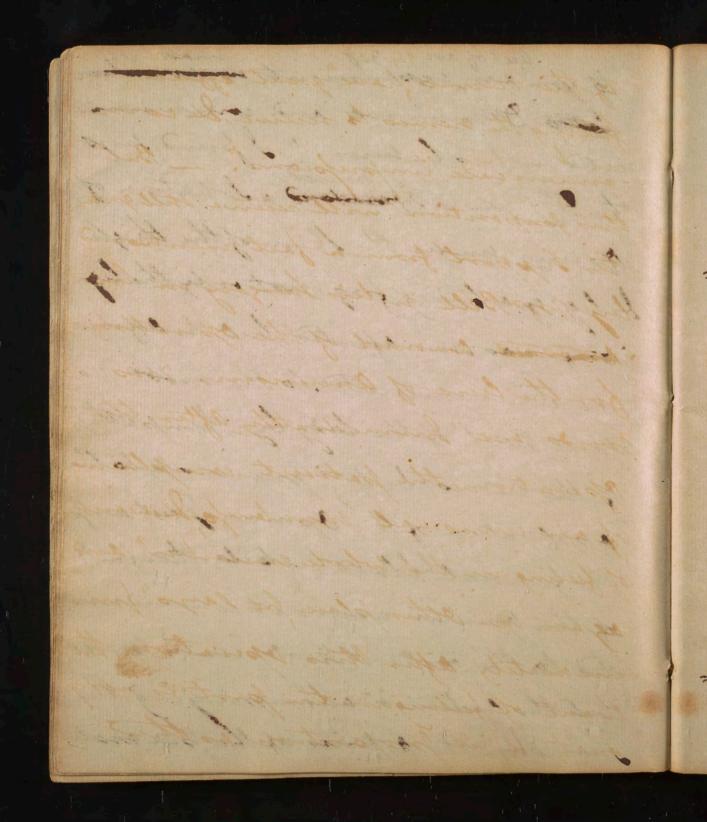
They defend the binface of the body from attition in some parts, - in: -part warmth to it in bluss - and in all - perhaps they eine to connect the lotted on but ward kinward Luticle more intimately together. 6 The Criticle and true their are not body. The taternal parts of the Anno - Unettera - Vagina - Enouth planymy. Westrils - so and probably existe a little direitéfied in theftomach and bowels. - There we desire new and more extensive binos of the Lines of touch, which will mable ers to emplain many of the operations



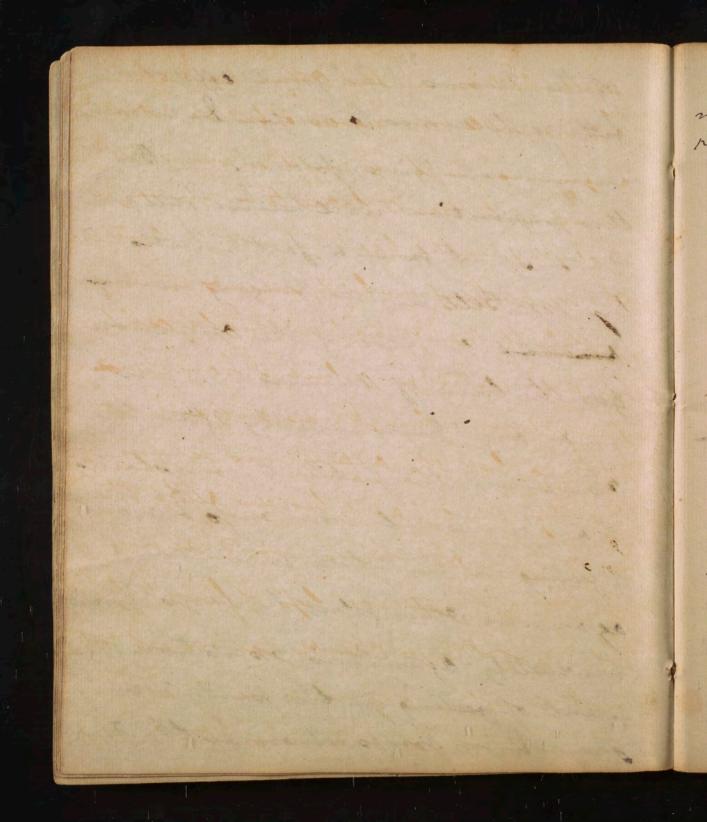
of estimal imprepions in producing discusses. in total hours but white Athe Stomach probably depends wholly upon the communication of insperior from the former to the latter by the loutinity of the Shin, without the on stating instance of tour to make of tours is operatly influenced by the so blood lupels which accompany the news, and those external pasts of the large which have most was blow respels, In fres the most husibility. In support of the first proposition of shall read



to you an experiment words by Drononsol, and communis: the D') when I found a Solution of Op imm under the Skin of the thigh I leg of a living forg, not only the leg itself was soon affected, but the affection was communicated to the most Dis. = tant part of the body by a Sympathy of the brewes; but if previously to the application of the Opium, Just werds the Jemoral blood repelo, theeffects of the Opins were not communica - To to the distant parts, which proves that the arteries anompanying the news, or the arteries of the pia mater



of the verves have great effect in fitting the news to receive, & com: : municate impressions". _ But this proposition will receive still great ter Support from a fact mentioned by mobell in his hungery in his the areaset of the operation for the live of anemion. This words are "Immediately after the Operation, the patient complains of an unnoval mumberufo, & want of feeling in the whole mumber" and again in Other place, he lays "fon: mediately after this operation, the want of feeling in the part is very great, & in proportion as the

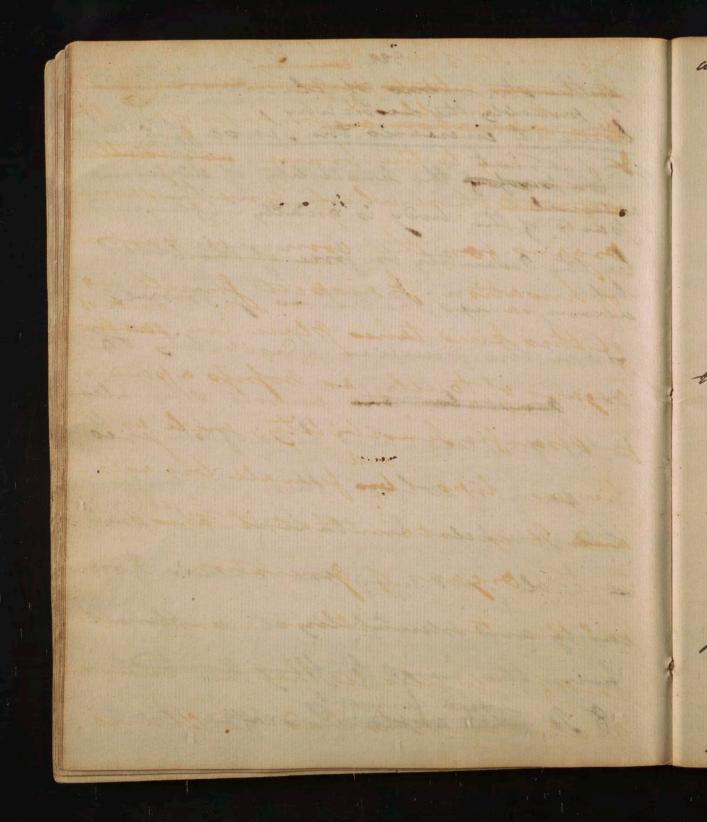


in welation in the other part become a considerable, the degrees of feeling also augments. - If we could suppose the Ormes of the parts below to be always included in the ligature with the artery, the counteres which sunds inmes - diately to the Operation might easily be accounted for; but I have known it happen, when I was ust ain that nothing but the artery was seemed by the ligature; and busides, attho the knot upon the orenes would amount for the immediate lops of funibility which follows the operation, it w? not in any degree seme to explain the return of feeling on the linulation Ve To this I answer that the bland bestitute befold are by no means formed destitute of bland in persons who have distributed in offstrine, but admitting this to be the Case, may & turn over to left him

being again notored! To these striking facts I might and that husation in the Shin is always proportioned to the greater or less fulnis and or tension of the blood bepels which terminate in the Surface of the brought this that Inve hereufterin my path the paths: -logy of the Thepseanding Disease). There is only learning exception to this much & that is the line of touch is enceased by fasting, but here is said to be the quantity or which case there is said to be the quantity or the strong of the strong of the strong of the strong of the said to be the said th enepor from the space tion

may here not lie mile Vitarion of Excitability in the extremeties of the nemed induced by the abstraction of the thingeles of aliment and blood as to sender then more easily moned by other times =li:-

biene it encreus the sense of touch. That the hosibility of different parts of the body is greatly influenced by the quantity or force of the blood which accompanies the brenes, I forme from the puntias husibility of the granded the breasts of females, If the genitals - and lips of both fexes in each of which there is a profusion of blood enepels. In the lips - the blood if visible, - and every one know how easily and plentifully it is effersed from the most trifling bounds. -



a different lett of news are employed to convey the I hearing to the brain, withthe the those which seve the same Organs for the common purpose of husation. I enspect formething with of this kind takes place in the organs of touch so populs a pendias or Openific Sensibility, well as the fingers - lips - be female breasts .-It is ust nin that it takes place in the organs of generation. Ofthis In Hinter mentions a umarhable proof. The tells les that he know a gentleman who had the glans

man and the second of the second V Ishall herefter mention surrals Other instances of the totaletion of Specific Sensations who was deaf, the the car to every part of the body.

Penis completely distroyed by a mostification almost as high as the Union of the Vinio with the Pulis; & at the eagl of the old Skin, at the rost of the penis where the ourses ter= = minated, was the pulliar function of the glavis penis, and the finsation of the glans itself, was now only com. : mon Sunsation; therefore the glands his different verses, and those for common Tinoation may come This the body of the person to the So much gent. for the fructure of the organs of touch in general,

V and by the small would which concentric layers upon the extremities of the fingers. - are inequality of Surface is them given to them, which oneresses their finishity. The state of the s

I mouro 9 to much that the estruction of the fingers property the qualities of une distinguishing by contact with ex: twin by in a much higher deque there any other parts of the body. Thor this they are fitted by an uncommon Imotherep of the toto. in hit the news timing to the These news with Bowhith temminte in the They the nails placed beliged them and intermitais of the fringers, are defended to the further purpose of enemasing fensation les a Species of merberation) The perons in the fingers extend themselves in papille way be act of touch. but these papille have never been

V: 10: To eneresse the June of touch to the highest degree, it is wisely distributed this fringers on each hand, be the projections are wort auto when the whole of their are employed infinia.
-tion. This I mention as a reason for coming four frigers when practicable. in feeling the pulse . ..

226

demonstrated. Even D'Haller who Jim his 423 & Feems to infer their existence only from the analogy of the tongue where they have been Deen, and where we shall sun hereafter they are murpary to the fine oftaste. malphigi is the only anatomist who pretends to have seen the papille in the ends of the fingers . - V 11. That the Jense of touch thould be wrent and perfect, it is much any that the brain Should be free from attations compression, , and that so these should be no Obstrution on the resures which woment the brain with the pingers, - that the circulation of the

I That the imprepion of the body touches should not be too violent, or too gentle - a that it should be continued for some time - and ogleter an instance of a man who could walk best footed, on hot includingers, the likes popula Do a high fense of touch. This is obvious in Children who always put the things they. I have to afrist theme in handle to their who to afrist theme in knowledge of their properties. This fense of louch in the light is lepticed by disuse from our employing our frigers, exclusively in after life =

blood to the fingers thould be easylplentiful, that the temperature of the fingers should mither be to hot, or cold beyond a cer-- tain degree of that the extramities of the finger thould meither be demidated non covered with too thick a frim. The latter tends very much to lipen the fende of touch, as we see every day in labourers, more especially in Smiths who often burn and thereby under Callone the unticut extremities of their fingers. Then the a the a of mentioned formerly the effects of; habit on the Sense of touch in common gt is from habit it Derives its hyperivity with the Other lenses. — It acquires in bury the toes, in the pingers. this way and more especially if it be deprived of the aid of other fenous an auc. - ray that goes almost beyond tomestion.

V enote lat parties the history of a man who bould disting wish every Card in a pack by the fense of touch.

mr Boyle relates a flory of and Organist who could distinguish colors & even black letters by his fingers. He always Incueded best lefter fasting a while, do when the weather was not very dry. The readines and westerres with which Physicians distinguish the different States of the Relse is the effect of habit. tand can weither be invitated, non comprehended by persons who are not accordance to it/ - To under the Since of touch as wente as proprible in all cases, it is needpany than the brain Thould be preserved free from forther the effects of impressions upon all the Other Sinces . It will therefore be

the hands in warm walis 2 by previous by 2 puting of the hands in warm walis 2 by previous by 2 nobbing of the a small by the exhaulting to the part a lot of water of the news of the ferse of torset in Distinguishing numbers is arguined by habit. Thus we know from experience that a marble when felt in the hand by two fingers - is single - but if we crops the fingers - thous - we have a less perception of two war blood I we we have the thickness of bris by it without the apristance of our eyes, but not the comparative thickings of one body evore than another. This fact is taken notice by mother by in the mid Repository. But may not this be owing to a difference in the bibentions of the bodies felt, unray not the ears apist day hearing these vibrations? X him the mind origination on

anost acute in Dustrues & infilenco. To the Sense of tweel we are indeted for all our ideas of the forimary qualities the fence of touch of points of boing to early apoint = ated with the Sense of Seeing, we are certain which we acquireonly by the fense of touch such as our Softmep- by the spectation of the without the hosting touch - and were it population the line of touch to be abolished in: - mediately lefter birth, we should never be able to distinguish we hardruf from Softness - nor mything matters which were sough from soids as were mosth.

its faculties are first excited, by the impressions on the fense of touch. They begin in the bound, from the meconsinon, and from external presoure. abortours are Often produced by them. It is in consequence of its being the most early lense in its openations that it is the most serfect of open 'till the g't month to formitimes not Will after it. The Surse of touch is the former of histinet. It begins in These of the superiority of this fense is enriced by seeing duckning, it has fense is enriced by the Conduct of the apostle Thomas, who the londert of the apposite of his out with his resumention summer to both his resumention summer to satisfie to with him to him his hand into Towns to 329 MM ais 2 ide:

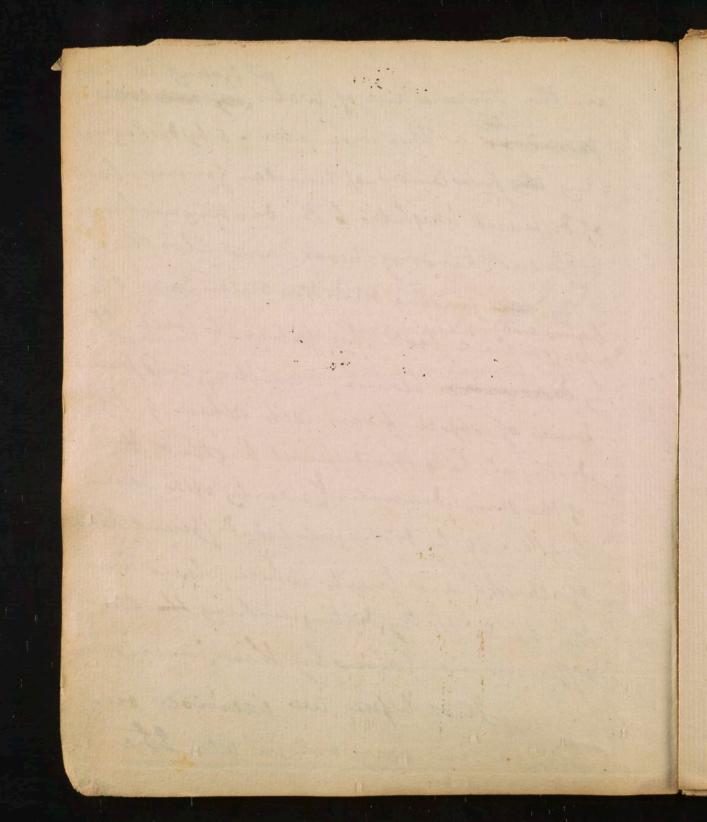
Even the blashing were would not be distinguished to a flame of fise without the Sense of touch. Whis Elsewation occurred with great force to Immenotineous the friend of motoche, and it morning by the the following question was proposed to by him in consequence of it, to that quat metaphysician". Suppose Said & mor molineaux that a boy born blind should be taught by means of his fingers to distinguish amountely between a Cube I a de made of the same kind of most al- and of the same weight, - and suppose their thould lefter wants suddenly regive his light - and the cubes and thought period of metals be placed before

n

his uses, do you suppose he would be able to tell which was the Cube, and which was the ball." ma Luche achrowledged Gon will certainly therefore excuse my attempting The Starting of the horse is owing probably to nothing but his ignorance of the properties of britis from the want of the Lense of truck . The trividity, on folly of many other animals enay be trand to the same care fullor the Superiority of man southers in many particulars from his properting exclusively the Jense of touch. To this he owns his alugant of not only of brost of the muchunical ants, but it ships his ability to direct the chiplography writing the more improvant bus & chiplography writing the printing. Heluctius considers & it as a more distinguishing characteristic of it I have said that all our knowledge is arquired this the Indium of the ferroes. - This bing the Case it follows that the inou ante and extensive be under the Jenses in this Capacity of receiving in-- pressions the more we shall be able to merese om knowlige. Too this pur--pose artain means have imployed in order after which of thall mention to after considering earlief the fenses. The finse of lovels has been jumproved y By dis: Evering persons by feeling their faces & hands or the hair of their heads. 2 by distinguishing and the feares of trees what is written in cours 123 by finding out what is written in the palm of the hand with a finger, or a pencil. 4 by disting wishing the difference

V 12 by distinguishing the frequency of certain motions - particularly the pulm in a given time.

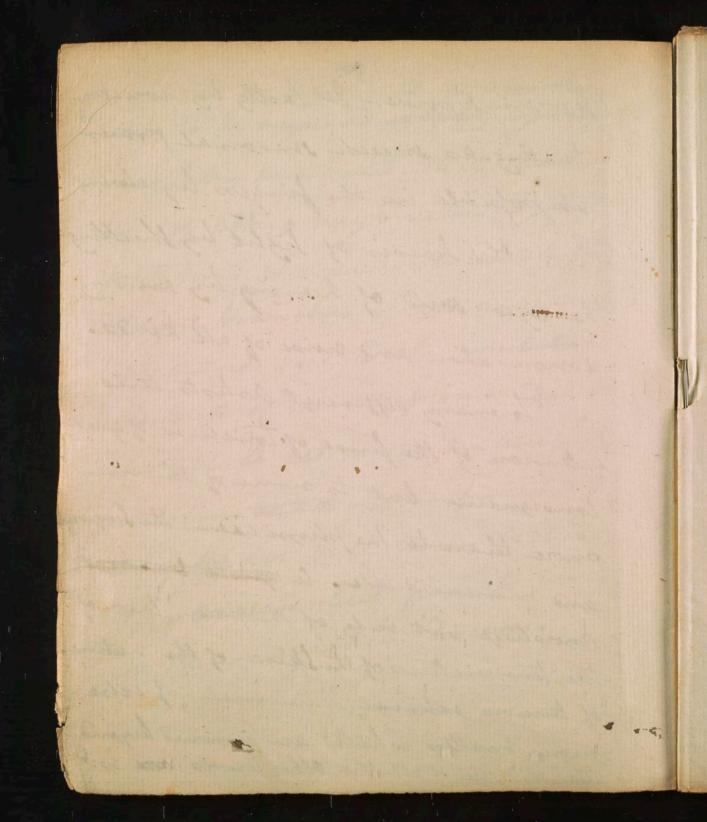
in the temperature of water to me produce a Thermouneter . 5 by distinguish. zing the fulustances of Trivillar forms, but of different wights. 6 By distinguishing different kinds of word, and Cloath. begues and book by feeling its line. & hy feeling its line. & pries of paper from Cach other. 9 By disting wishing the different length of thehs of the same diameter treasly of the same lingthe. 10 by his ting nis hing different kinds of earths and fruits when placed in the hand. It By distinguishing the the V Difference in Coince by their inscriptions Inst before we exercise our fingers in any or in all the



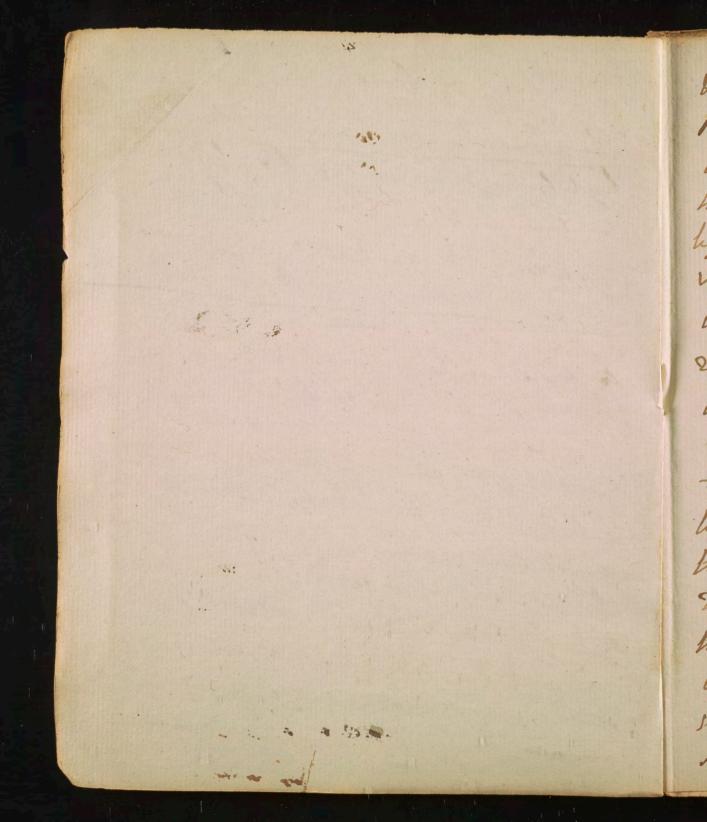
ways that have been mentioned, The following mans has will be bound leseful in impasting fensibility to the fingers. I Holding the hands for a fun mienstes in Waren Water. 2 Rubbing the fingers own a rough Substance of any kind. This acts by exciting the extremities of the rimes. 30 84 2000 The fense of touch is further very much enercased by moving the fin. = yes back wards and forward upon the body we wish to cramin. also les unwing the fingers for a while in order to favour the reasurementation of

V outs to be acquied to by the prish pul have been mentioned, that cannot fail of adding very much to the lafety and pleasure with which the different branches of medicine may be practised, but to the expectation I interest of the profession. That it is profrible to not to the authority of function to the finger, 2 infir not only from its having Ofan attained, but from its bring so Often induced by Discased.

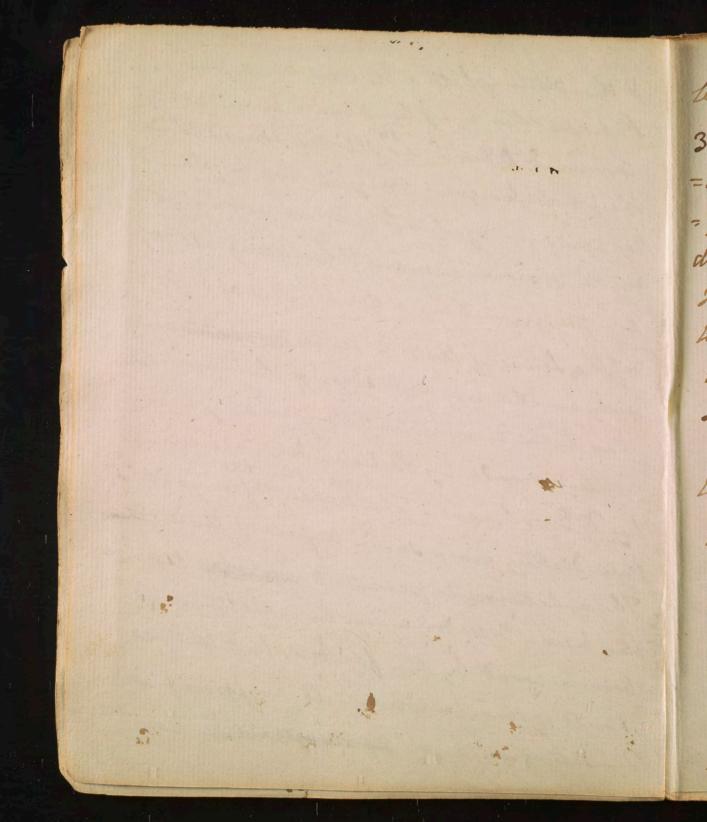
Jensorial power & lastly by concen-- trating as smuch sensonial pomen as proprible in the fingers by closing up the Lenois of light by therting The eyes sond of henring by avriding Conversation and mise of all kinds. To many different artists this extension of the finse of tonels is of great Consignence, but to none of them more than to the physician, the Sugur and manemidwife. a quitt broke knowledge not only of the pulse, lent of the temperature of the Skin - of the nature of tremors external & internal, of extra-The wideres of all the other Jenses, was is



of Saste This lease is reated only in the tongue, by which I understand that hady which is pland in the Inouth, and which is capable of the greatest Variety of motion The following peculiarities relative to this Sense, Deserve our notice. 1 The tongue abounds with blood repels, newes & museles & Lymphatico. It has an antery and begin and fourmuscles on each tide of it, from which some anato= = mists have drawer an insaginary line this it. It would seem to be composed to two parts, provided with the same organs appended to each of them, Jones saw it equally divided by a Utraight line, costor one Side of which was sed,

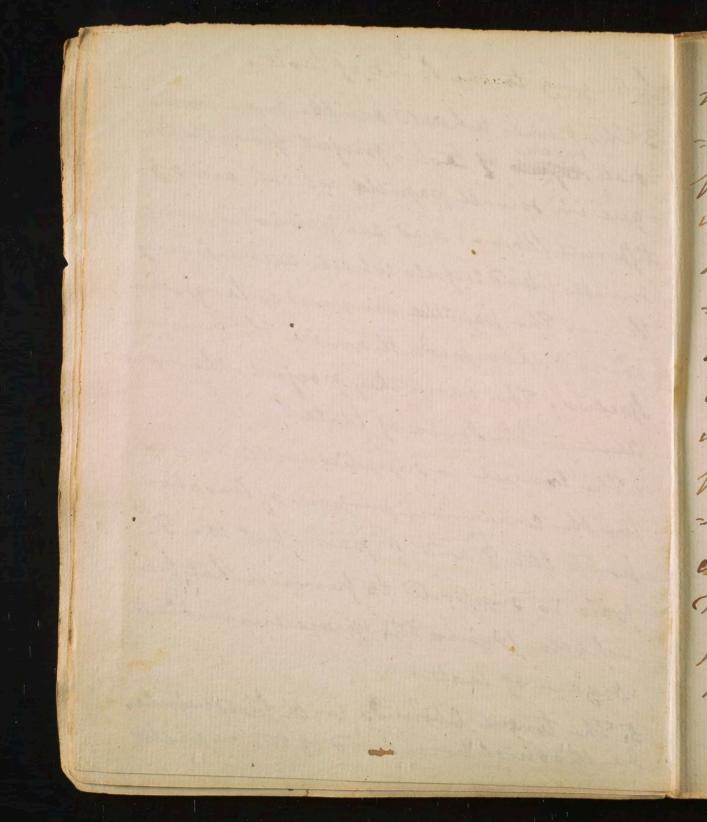


I the other white. It was in a palsy. Perhaps this may be one wason why Cancers & Other loves seldown Spread this the whole tongue. Enay it not be placed by means of this threature upon a footing with vision, hearing of prolling all of are performed by a double lett of organs? 2 The Lense of teste is realid in the only only in the tip and edges of the tongue. This has been demoustrated by many experi--ments made by Bellini & dince repeated the the the lips - the the lips - the the lips it is by Dr. we it is true disting vish some objects of taste. It Thus hellebore is perceived against Upon the lips - Belladone by the palates, and brown wood by the fances, but these Should rather be considered as perific Tensations, than symmetry as



belonging to the sense of taste. 3 The newes which are the more imme.

- diate top of taste, project from the ton. - gre in small papilla which are of different Shapes, and are pressished with Imall blood repels which accompany them. The papille are much larginin same gradenped than in the human Species. The enou they pooject, the enoue acute is the Inroe of taste. 4 The trongue is supplied with news for the common purpose of tens ation from the 8 and 9: pair, but the 5. pair is supposed to purish that branch which forms the more insomediate organ of taste. 5 The tongue abounds with blood supulo. In the mighbourhood of the pupille



they promish a hignor which is pour. - 200 forth upour the tourgue in order to favour the action of teste. This liquor is everessed, and demassed in Juness. It is tometimes thishuld in its con. = 2 istener in while Case the longue is said to be foul or fremed. 6 The Sense of touch is mouragnisite in the tip of the tong in than in the fingers - herse her distinguish the torond. = rep of a egs by the warmth of one end of it when applied to the tongue. The fingers girls are unable to peruire this warmette. It is busine the Just of touch is more aut in the tongue than in the fingers that Children apply B. the bodies that

V following lineumstances. I'By the = 11 2: By the confinement of the Object of taste carbonively to the tip of the torque. In this way the punchasers of wine test its
quality. If it happen to touch the palate, they cat or drink formething to remove the imprepion of the line upon the the palate.

are put into this hands so generally to the mouths in order to ascertain their nature and qualities.

Offer byse of taste is influenced by the V different Stages of life. It is most ex = quisite in infamey. It is for this reason that Ingar which popepis but a fuble Stimulus, is to gratefut to young Child. -sen. In enou advanced life beparticulen-: by in ow age, the tongue burnes less Sensibile to the Stimulus of Sweet bel: = etames, and issgnines takine, or aro = maki hebstances to produce in it the Excitement of pleasure. Howard weather too day, and loffee on a hot

vof their power of existing that by means of Cold. It is reported by a centains with brancellen, that all bodies bot their lapid qualities upon the cold firmsmit of the pike of Teneriffe wine is said to have its most perfect relish when the Thermometer is about 55.

12 . O.

day. ands are most gruteful in the boother, and loss wordial wines in Winter . marry rapid bodies are Dysined & By certainhelistances proviously ta-: hen in the Emrette Biller - Jewest & and aliments and duraho, impart a portion of this tastes to all the Inalters that are then insmidially after them. I by Certain Odors which pap this the now, and blind themselves with the Objects of laste. of taste, also the trose of the brain. The tongue when demedated of its Skin, or When inflamed, or Otherways Discuss, imparts the most essourous Tensations to the brain. a Catarrh which

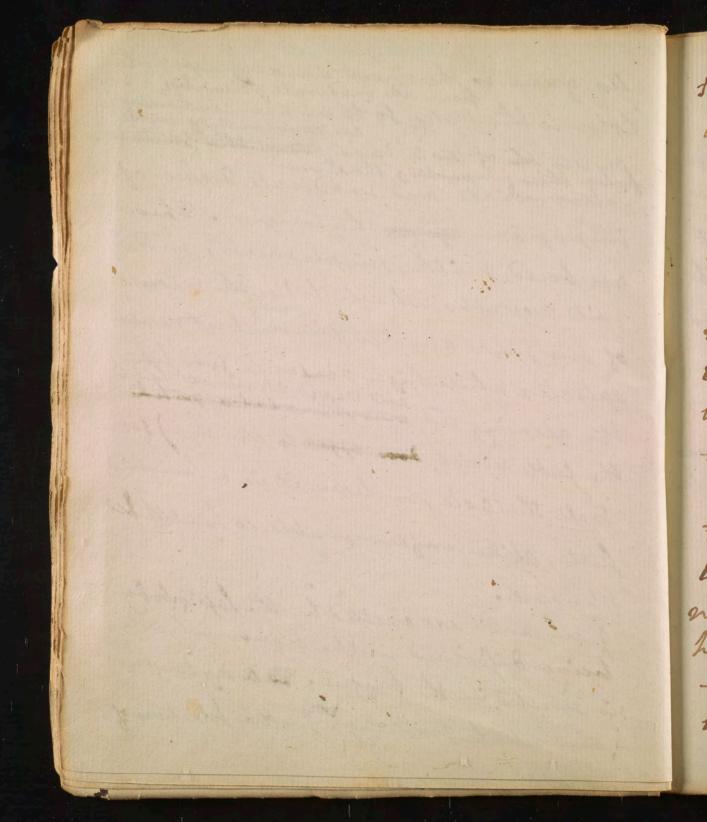
iffe

Forme philivlesists and to the enember of the Objects of tastes, but they art negatively only, and therefore thouto no more be included among the Objects of Taste than the negative fensation which arises from the absence of light, Should be considered as one of the impressions of light.

obstructs, or inflames the foliais unian mendrance impairs on destroysthe Juse of taste. a discuse in the brain has the same yout. To return 8. The Objects of taste are ench July tances as are Iweet, sown, rough, bitter, saline, vinous, Spisitores, acrid asomulistes putrid hebs lænces. Dogsen fupponothen to be disturin member. He probably includes in them ench impreprious as are made upon the lips, and fances. There is good reason to believe they are like the primary Colors but seven in munlier, and that the immenses Variety of them are Europounds of there seven. There exists probably among them the same harmony & Discord that takes place among tolors.

V To this work

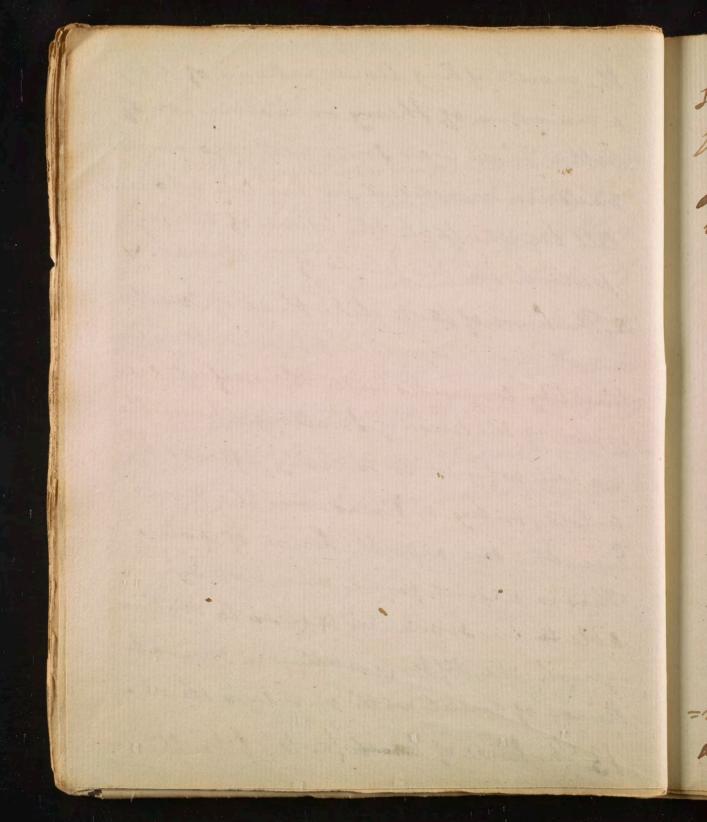
as open is the most durally agreeable formation from its moderate fliminters, lotter to the lyex so there are certains one constantly agreeable from this imparting the same from this imparting the same from their imparting the same from the intermediate and moderate begins of intermediate and moderate begins of impression to the tongue. These are bund, milk, semplements, and will begetables which like the verture of our fields ahways please, but never Tatiate, while high sensoned food like and vapid aliment like the fuble violet, and the eye) soon Is all the taste, or have it in a languid State, alike unfavourable to health & I all tastes are oxisted by the Sapid body being Dipolared in the liquor which is swreted in the tongue. De dry tongere can whish wothing. In the blution of



Tapid bohis in the mouth something like agitation takes place, forthe bonger after receiving the sapid body throws it against the teeth, and roof of the mouth by w. Ineans the Solution is both expedited the remark, of the behing a Jupid tongue before a teste care be perceived from it, there is one excep-- tion. The Initals are insoluble in the of the tongue, and yet they care = tainly impart a funse of taste to it. to The perfection of the sense of taste is much influences by habit. Persons who have long been accustomed to Inink ma - I wine can titl at anew whetherit he has been taken from bottles, or France from a Cush. They can even distinguish.

11. The lens ations imparted to the tonger has borne Variety in them. They are generally constant, as if - for they aron from the continued action of Ane imprepion; But some Substances create something like an Undulation in the the news of the tonger, that is the Sensation of laste energes or lipeus, or in Other words comes & goes . -

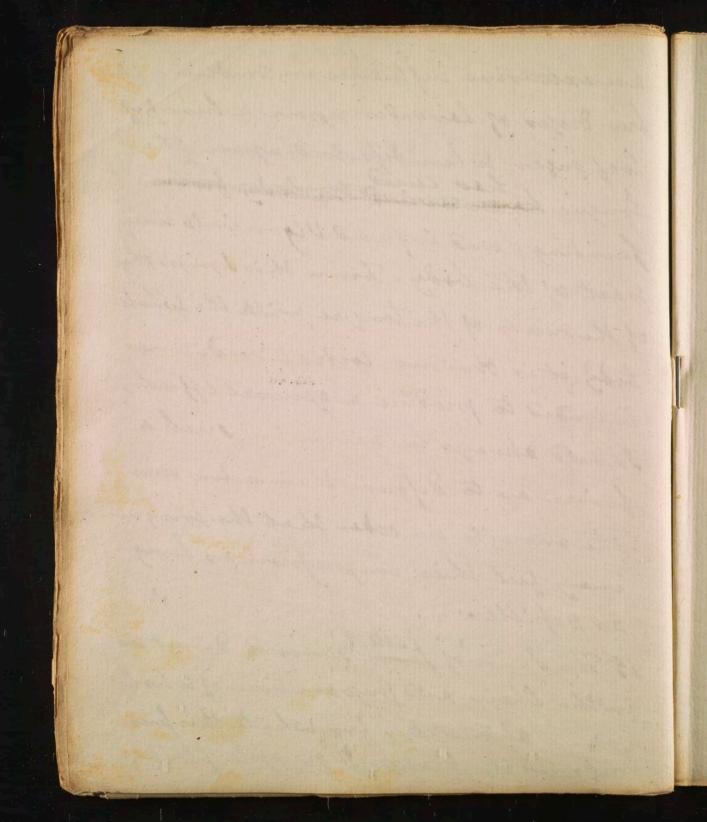
the most trifling Woulterations of it by a mixture of themy or Lisbon, or of both. There was forme years ago an bed mudeina mescheret in this City who would till by the taste, the wine of every parish in the Island of madusa. V 12 The leave of toote, like that of touch is not an independant Sense. It is in--timately commented with the perfect ex-- escise of the dense of Smelling, - hence the masure why it is so casily affected by a Cold, or by a disease in the crose. Even the eye aids the Sense of taste. This is wident from our not being. able to in some instances to distin. -grish the difference between several kinds of event with our eyes thut. 13 The longe of back taste, like the



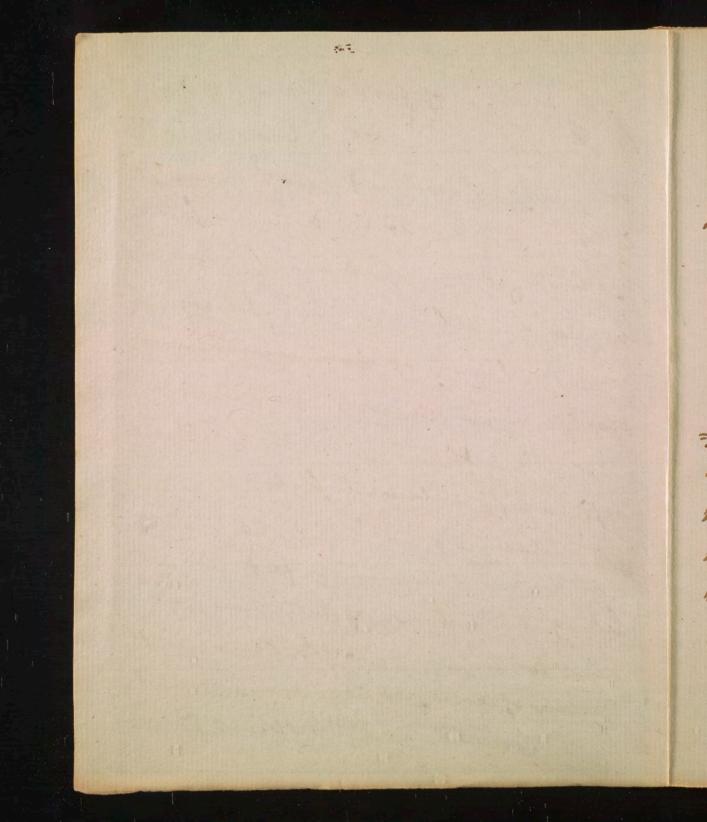
Jensation punlias to the glans peris formerly mentioned, may be transferred. Jepieur relates the Case of a girl born without a tongue who had a high sonor of twote diffused throughout her mouth, and a Ingere in Jaumen mentions a limiter last in a boy who tost his toughe in the brule pox. This horsein Jame Animals is supposed to reside in the Stornach. It is absent in Others In the anteater and in several other ari: -muls, the tongue is supposed only to apist in lunning food into the fto = 14 The tongue has an intimate cors = nution with every part of the System, and imprepious wade upon it have

M The state of the same with the same and a same a same a same a same a same a - Bank Bank College And Bank Bank Bank Bank the country of the same of the 3. p the second was a second with the second seco

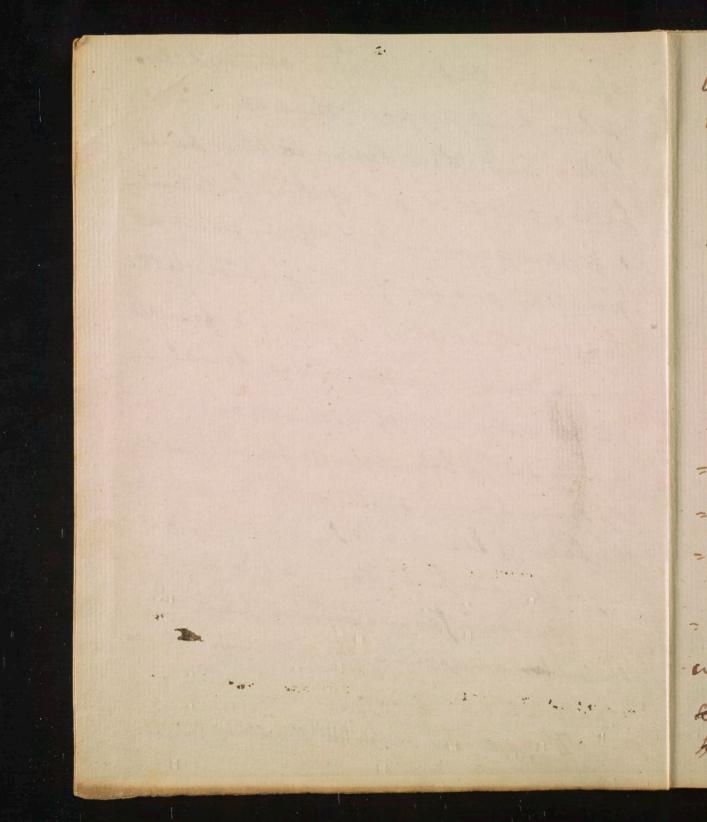
an extensive influence in moisine : a for dropes of Lavender upour a himpof traf sugar to her difsolved upour the tongue bossessions the lady from fainting, and infused Vigor into every part of the body. Town this sympathy of the reves of the tongue, with the whole body, it is obvious contral mudicines introded to produce a general effect, Throw who also given in sucha from as to diffuse themselves over the annuth in order that the trugue may ful this imprepion as long as popible. 15 The Sense of Just serves to Directus in the Choice and preparation of whol-- some abinents, for while this fense retains its healthy & simple state,



Just articles of food as are agreeable to the taste are with a few exceptions, generally wholsome & nutritions. It is anuch provented in archived furiety by intemperance, andent spirits and tolano, for which reson Savages, & even the Beasts of the first With forth derive more pleasure from its you. - tification than man in his most refined and cultivated flate. Having unemerated the principal and the most interesting facts which belong to the burse of laste, we proud next to inquire into the cause of the Variety of tastes, which are imparted to the tongue by the different Objects



of laste. Baker & some other philoson = phers have Supposed that all saped bodies were thier sapor to their being falts, and that each of these falts having a figure pendianto itself, imparts a pendiar and sprific imprepion to the tongue; But this openion is founded upon broneous princises, for allsa. = pid bodies are not of a Jahine nature, and many Jaline boties which have exactly the same form, such particularly as the falts of Some and Jugar, imparta very different knowthing to the longer. The prinous ftones which have the Jame for angular forms impart no trote at all to it. Or Rid has progrosed another Johntin



of this question in his ingenious apay upon the wind. He supposes that every sapid body enters into mixture with the ligned upon the tongue, and that the Variety of tastes is oursioned by a similar Variety of new Compounds formed by these wistures, each of which gives a nu & sperific imprepion to the news of the tongue. This expla-= nution termen ingenions, is hypo= - the tical; and is in engable of demon. Tolston The following explan = Wation. - nation of the Cause of the Variety of tastes will I hope be more salisfactory. ESSENCE STORES los in 18 refrious only, on the

AND THE RESERVE OF THE PARTY OF • 2 Control of the second s The state of the s

The energy thought as I hope to prime to you herafter depends upon a different motion in the brains so every different sursation of taste appears to depend upon a different metion in the homes of the tangue induced by the Japie body which acts your it. There Jugar excites day a penetiar VS perfie Inotion in the vienes of the tongree the Sinsation of Sweet - arid and bitters in like manner værite the hursations of sowr and bitter. That this is the case I infer, not only from the enanner in w: hearing, pleasure and pain are produced, but a every thinking facts which vecus in discases, forto discuses un are indebted Just our knowledge of many important buths in Physiology. The facts I allude to are as follow. De Hartley tells us

V Jane attender a lady in an intestinal Disease in whom several of her drinks and particularly port wine imparted the taste of Jugar.

that billess, and dieds applied to a fringers on the brain, produced the sens ations of bitter, and Forwer eye on the tongere. This upp cans to have been occasioned by excetty the same vostions being excited in the heres of the tongue from this Sympathy with the fragers in the brain which when some directly Himselated by bilters and hirds protrue those Lensations in the tongue. hymn De Deeves informed me that he had a patient in the burner of 1807 in Whom every thing the applied to her tongue produced the ferration of bitter. This appround to have here occasioned by the tong we those motions which I produce the sensations of biller in

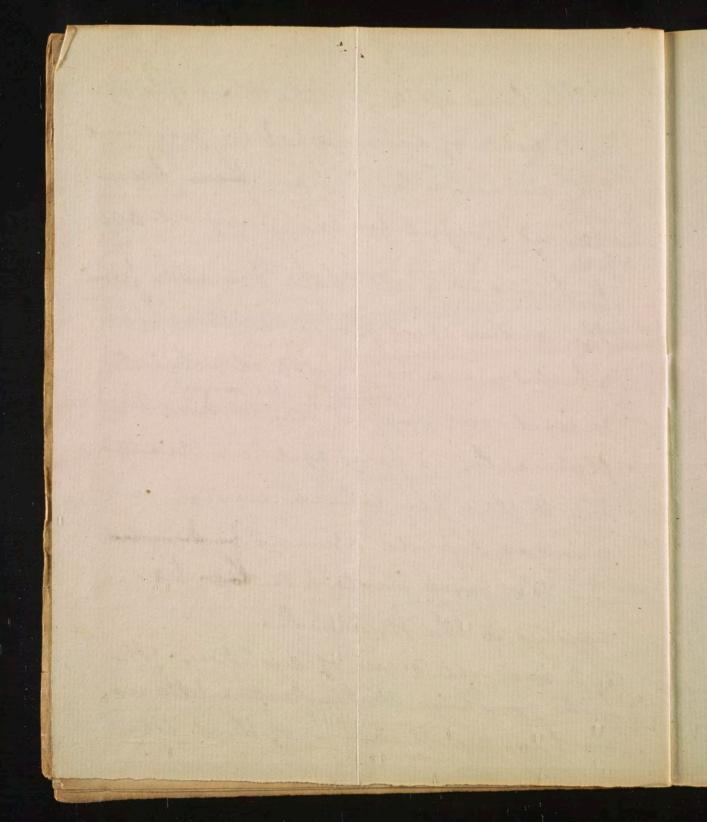
of themis existed by those Instions in the toughe which uniformly enritor pro-= ducit. We have further from the Solution of the carroe of the Variety of lastes that has been given, the cause of the longings of lovemers for particular kinds of aliment during their pregnamy. These longings are generally ausmapanied with newsea , or what is called breeding fishnep, to hich from the habitral aproceations of the Stormach & troughe in its pleasures) that the that the though were formerly apointed with the teste of certain alianents - and as the aliments thus tasted are generally of a pleasant nature, they become Objects of Vehenent desire, or in other words of what are called longings. we shall see hereafter that all thesenses, de producing their Sprific Effects. = over bythand

I have heard in like manner of the forsation of Dil being exited by every = kind of sapid body that was applied to of the tongue. The news in all these Com are in a discuss flate, and refuse to act in their ordinary enanner from the imprepions that are made upon There . This Johnton of the Cause of the Variety of testes aucunts for the many falm finsations to which this Line is exposed in different people & particularly in lithrups. It accounts for menny imparting the laste of Copper to the tongue in the beginning of a Tabication. It explains the meson lihurise why in our drams we enjoy the taste of the most agreable pliments. The ferration

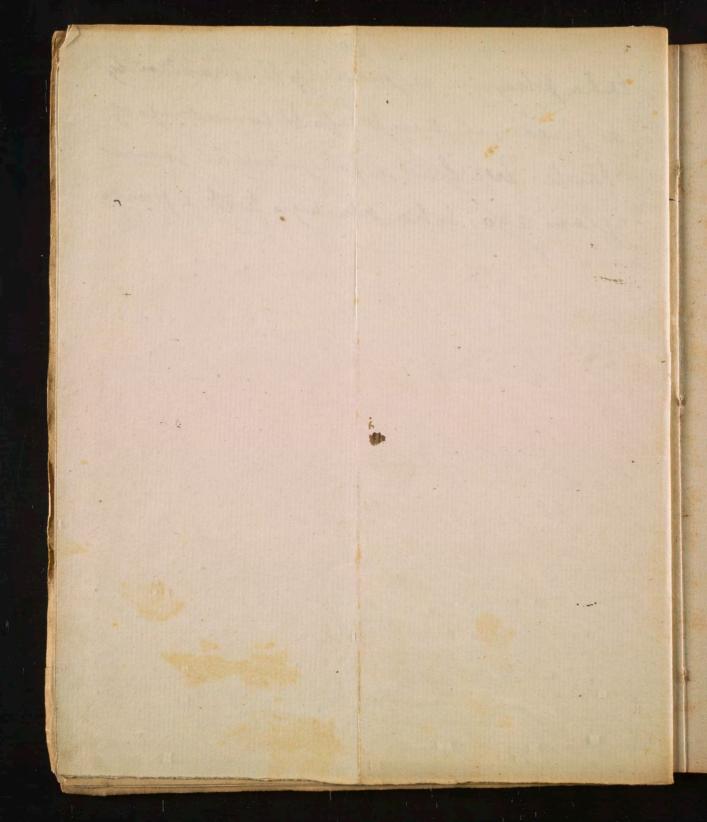
, ,

= Jane aware that sayindividual neme is appropriated by some Physiologists to cach individual fursation. Thould this be the case, it will not invalidate the theory I have believed. The for Sensation and the impreprior made upon the tongre will depend in this lase upon a difference in the new Stirmlated, instead of different motions in the same nerve or Let of newes. go to 21. Je ser se

The ferme of taste like that of touch is cupable of extension & improvement. The mans which have from been found aseful for this prespose are I Removing all those discases from the tongers and from parts which which sympathered with it which healthy actions in Disordered period to impair iton a disordered Howall is very apt to vitratt the taste, for which werom over remedies therite always bed to in the prist instance to be applied to the Stormach. 2 a moderate Degree of depletion. The looks if Paris molin beston tells us in his revollections of that lity,



take physic regularly blows tantly to meserve antineps & consularep of taste. We had a physician some years ago, who always took a purge



in whom the former of Vaste is absent from the today it may be seated in the Storageh, or sound other partsof The fense of teste like that of touch may be extended and improved, by the following me uns. I Removing all those discases from the Stomach Stongue and mose which I said formerly prevent or impair it. 2 By a moderate degree of depletion. Cooks in Paris mor Pinherton titts us in his recollections of that city take physic aigularly and Consolaritty in order to preserve autines & conseitness of taste. her had a physician in this city forme years ago who always took a purge

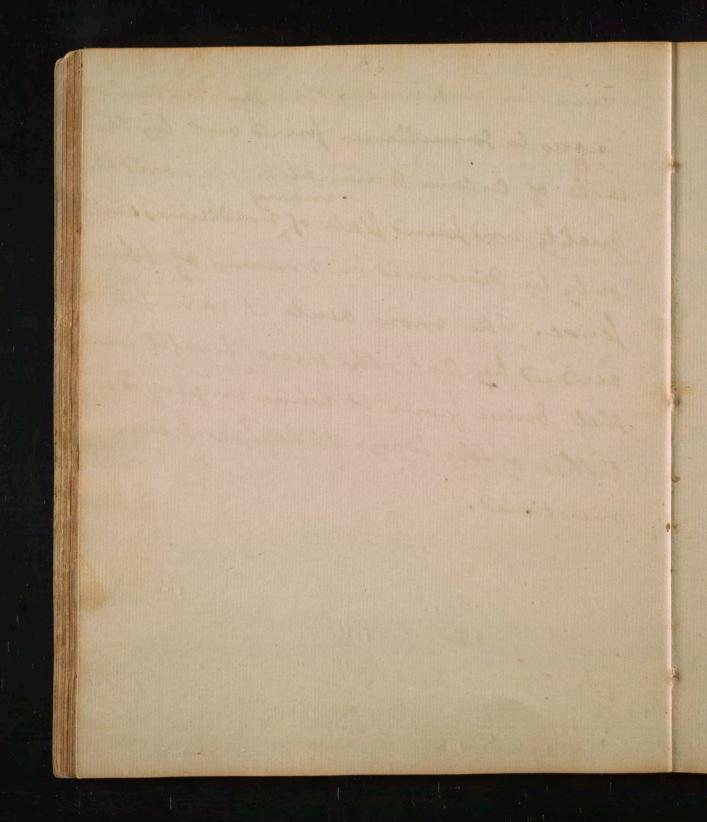
mon that reason or Spech

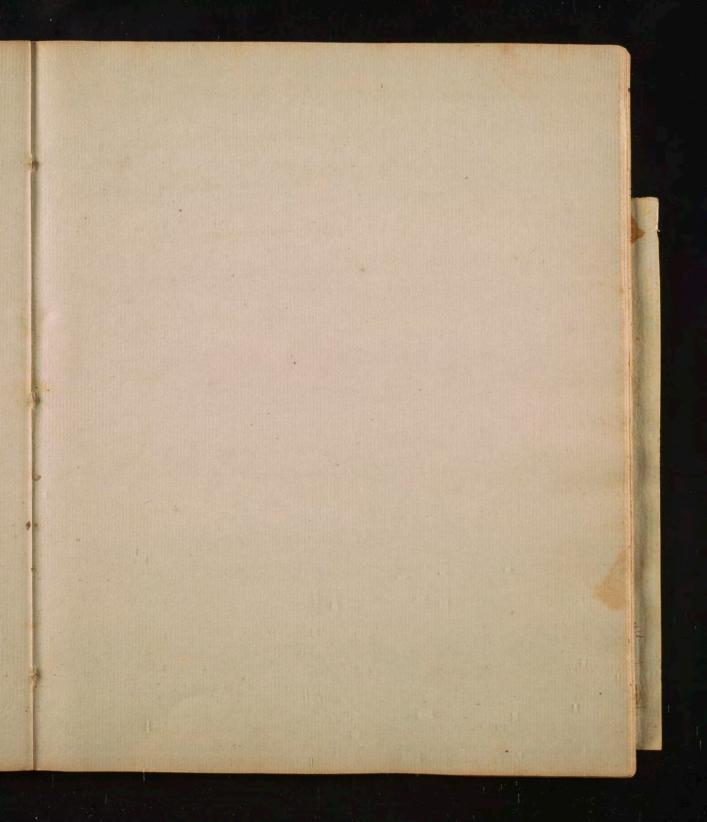
persons to Detut different sapid fulestances applied to the torque.

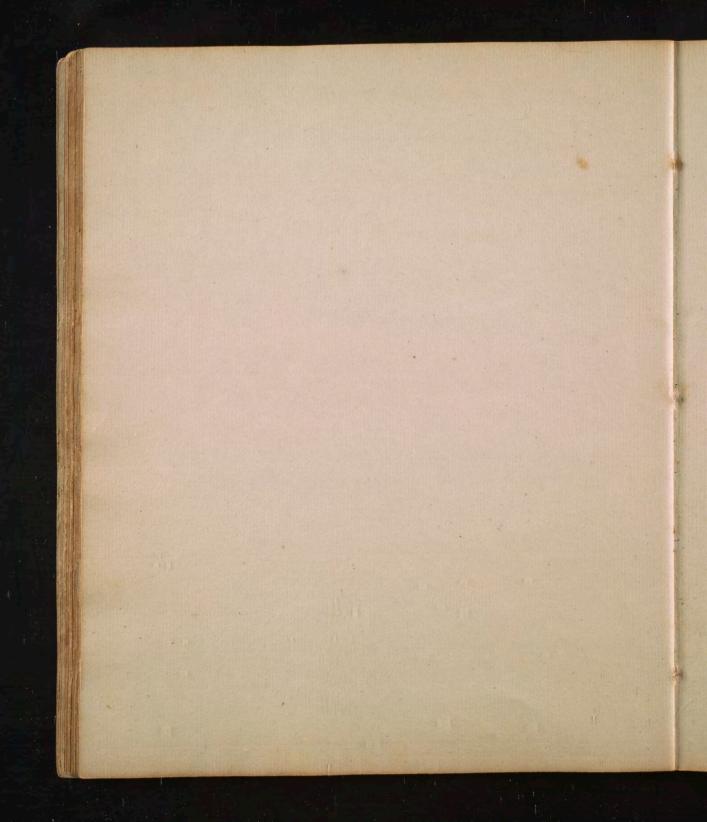
The Vay liftie he bount to a feast pro-= bly for the purpose of energing his same effect: Variety in aliments and Frinches. The which & Whine it begins to flag upon the taste, may be revived at any time by cating as little Cheese In this way retailers of wine the a retuin thinks the cornetines of this taste, so as to be able to purchase by tryal dange greentities of Wine at a time. V The improvement of the Sense of taste is calculated not only to addto the phasures of the table, but it may be andered useful in various arts, &

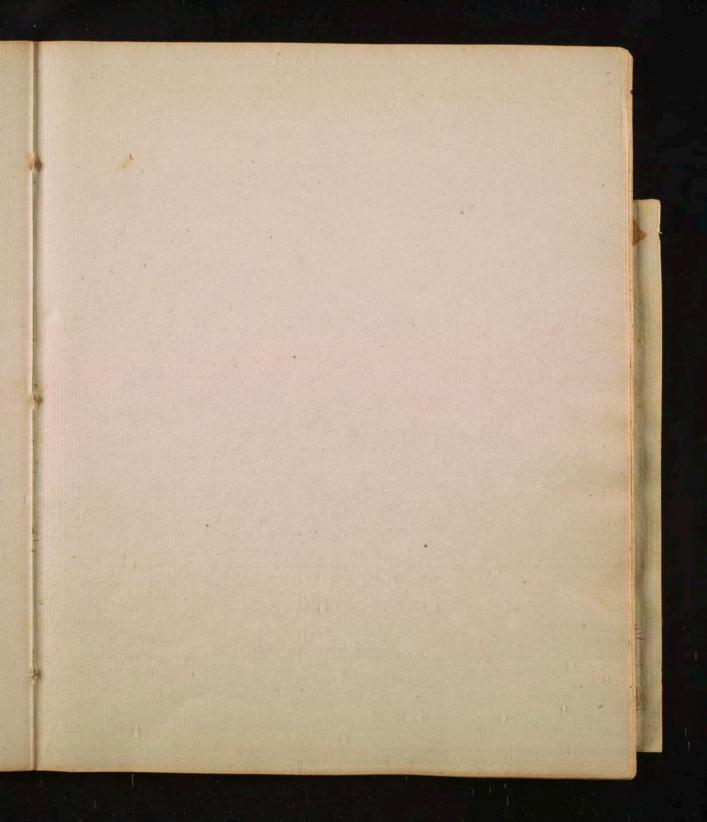
Brakety was found flate of andrivers lenoce The word pents it can versoned his art, the view lanifet that beview four it when employed 23

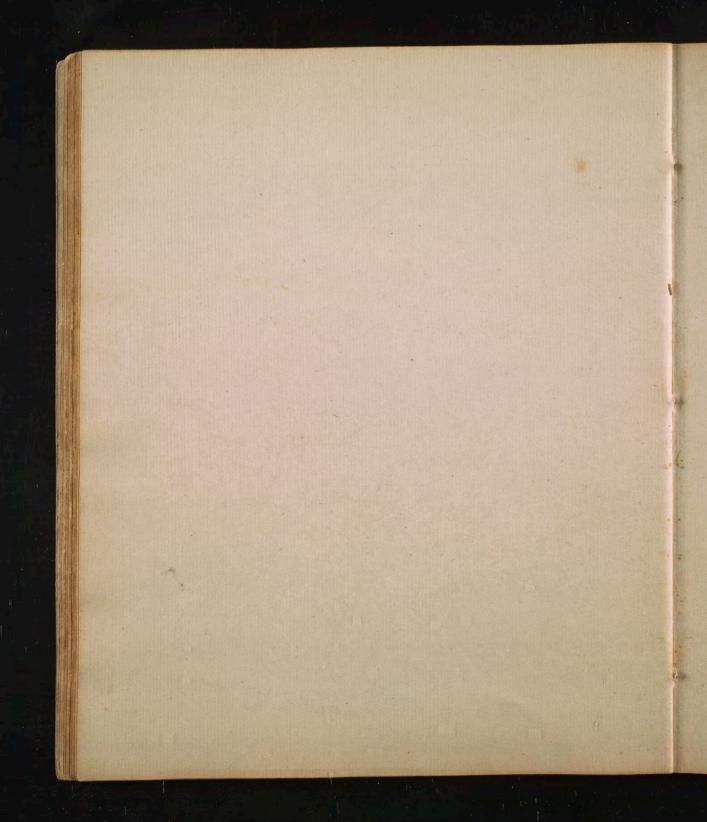
even in midiane. The southers of diseas is sometimes found out by the taste of certain animal fluids, and the quality and found flate of mudicines can only be discoursed by menns of this Jense. The more aute it can be sevened by ast, the more benefit we Shall derive from it when employed in lither of the ways that has been mertioned.

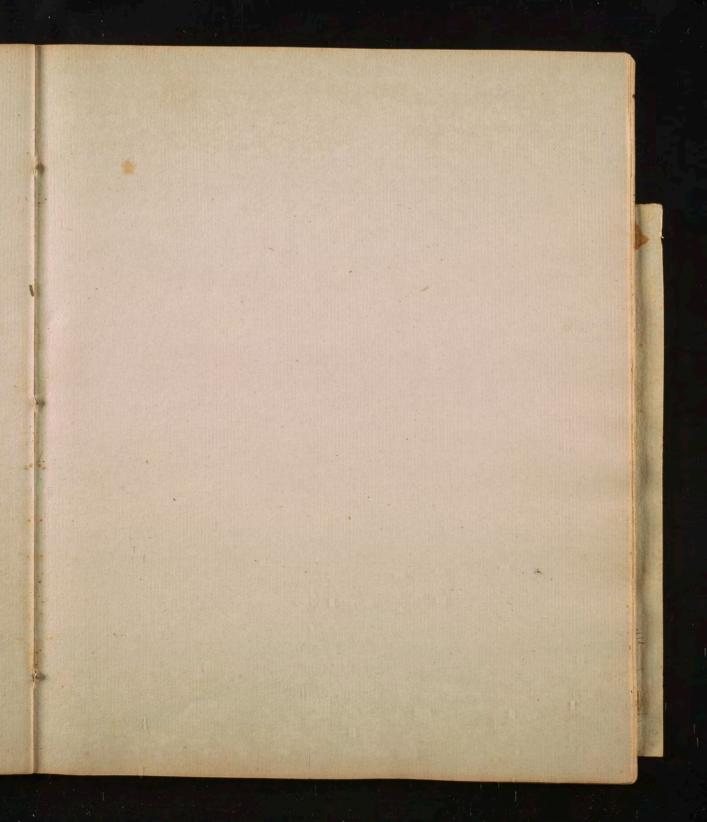




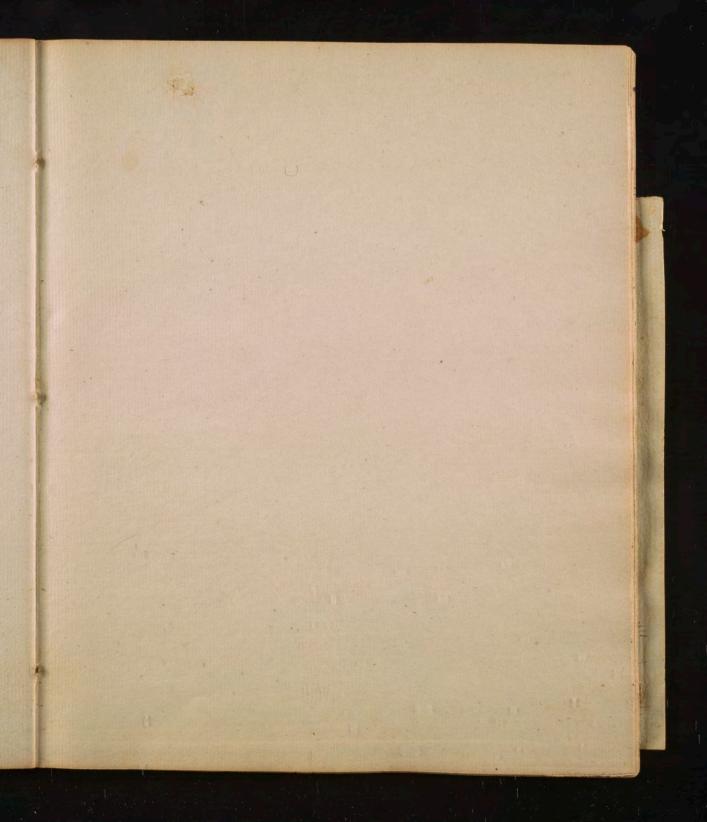


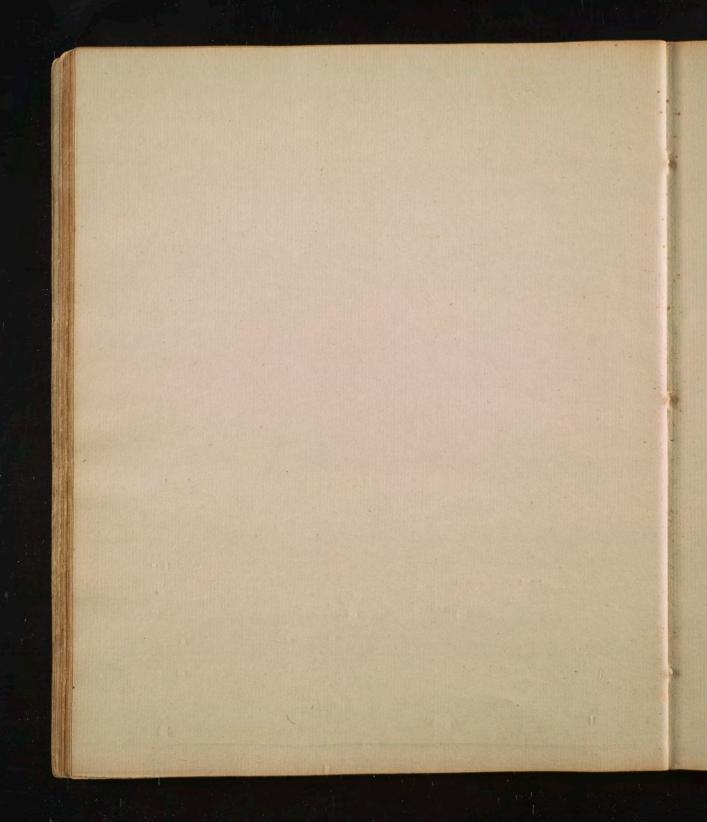


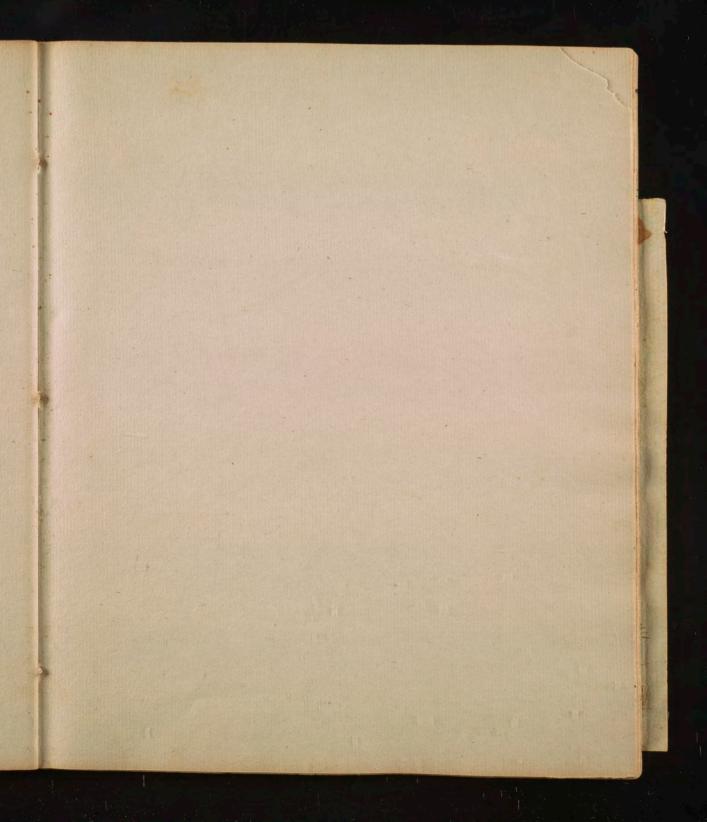


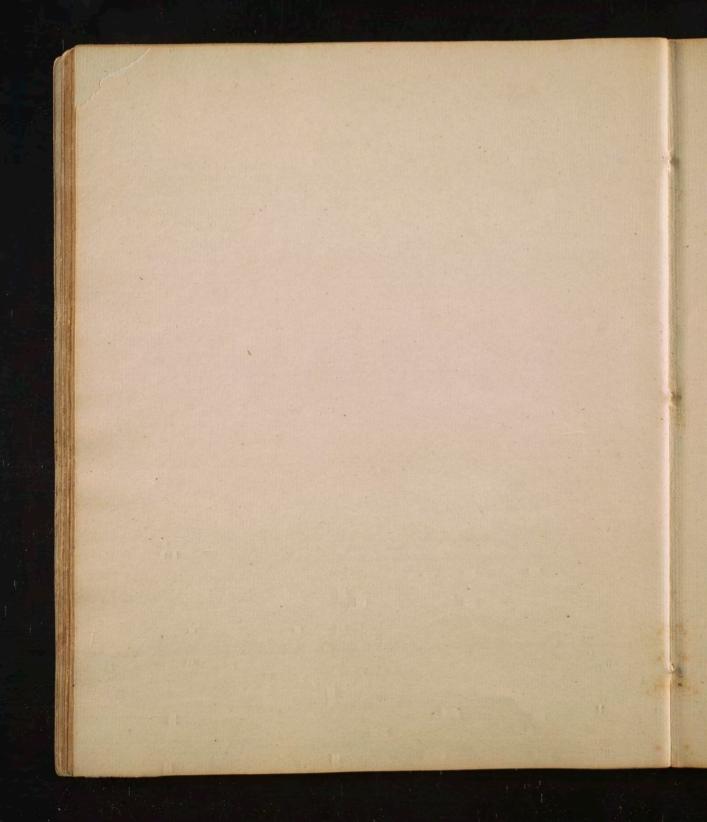


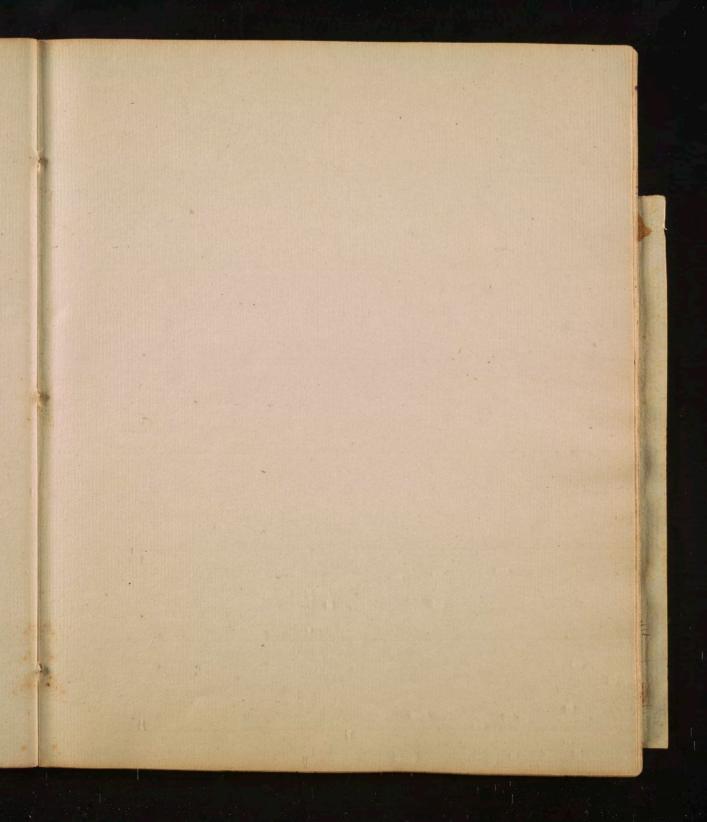


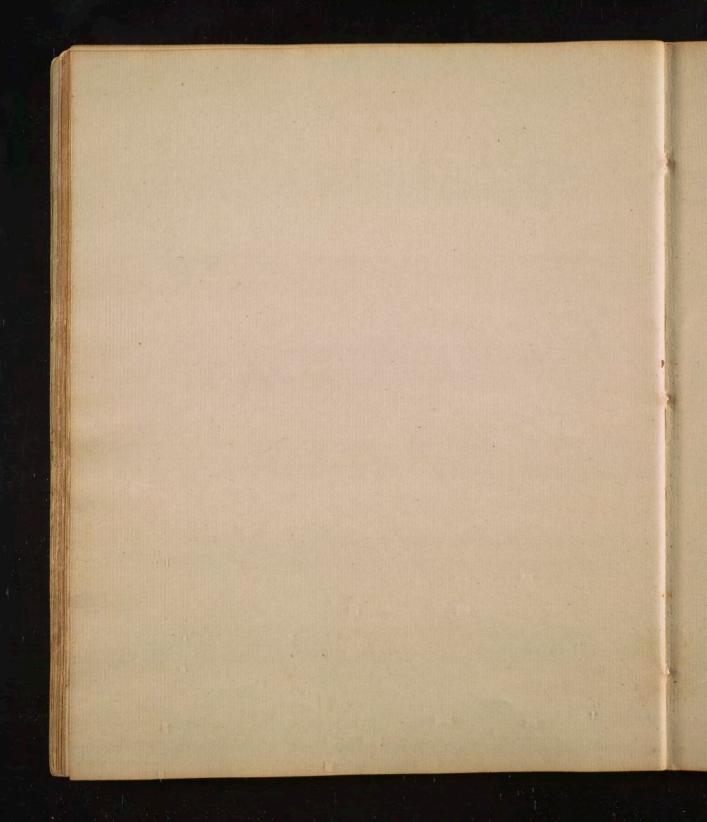


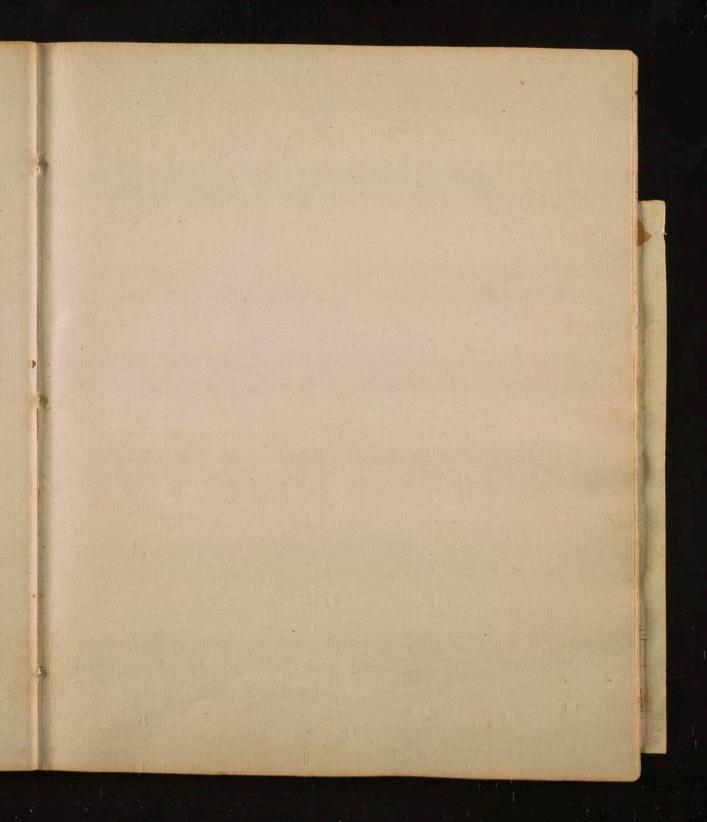


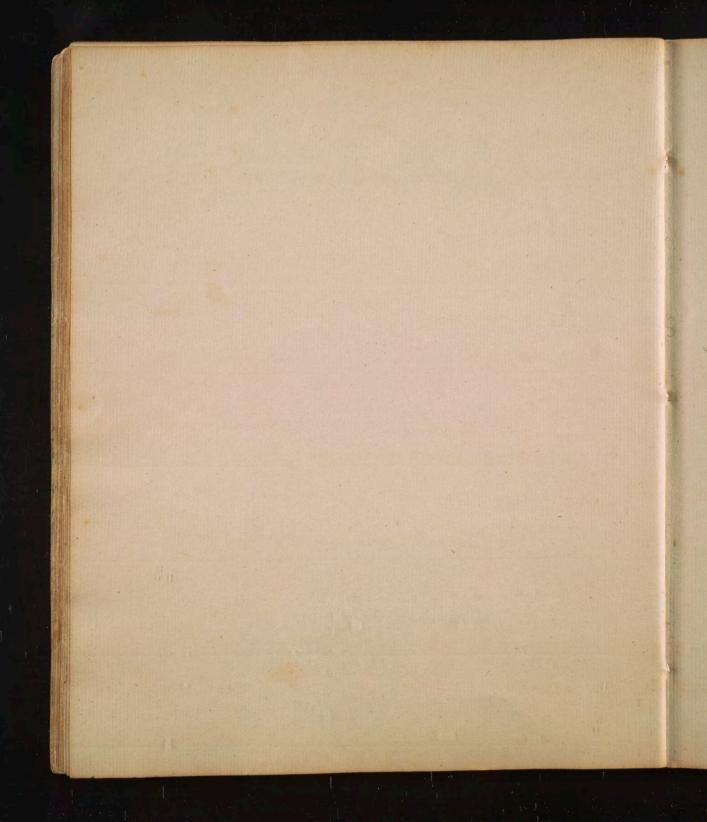


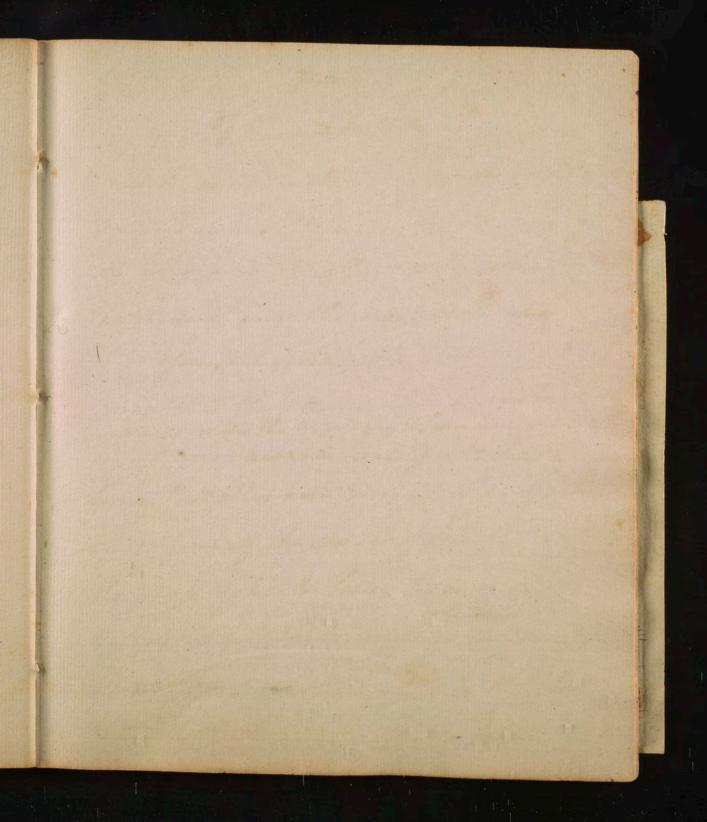


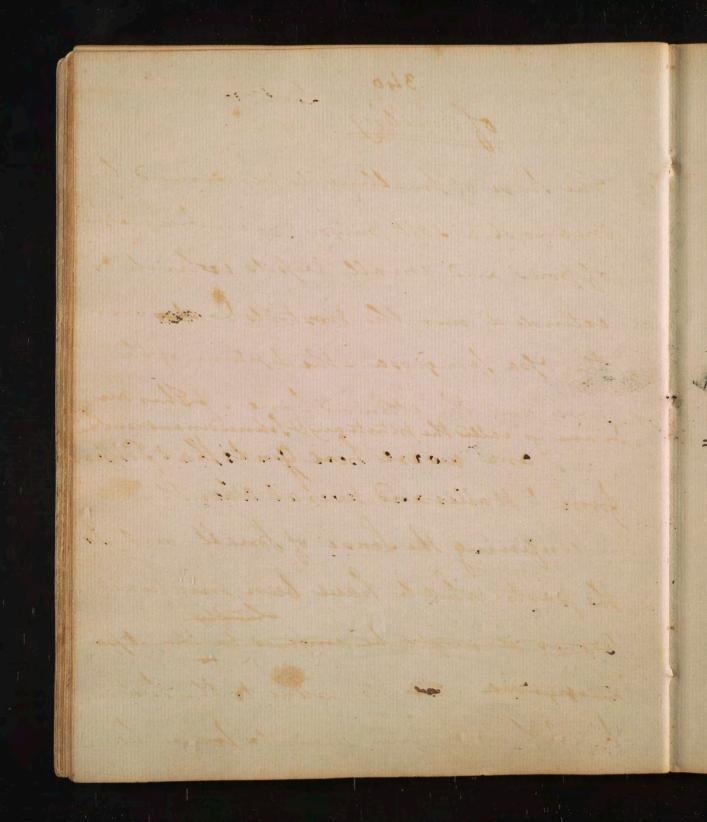




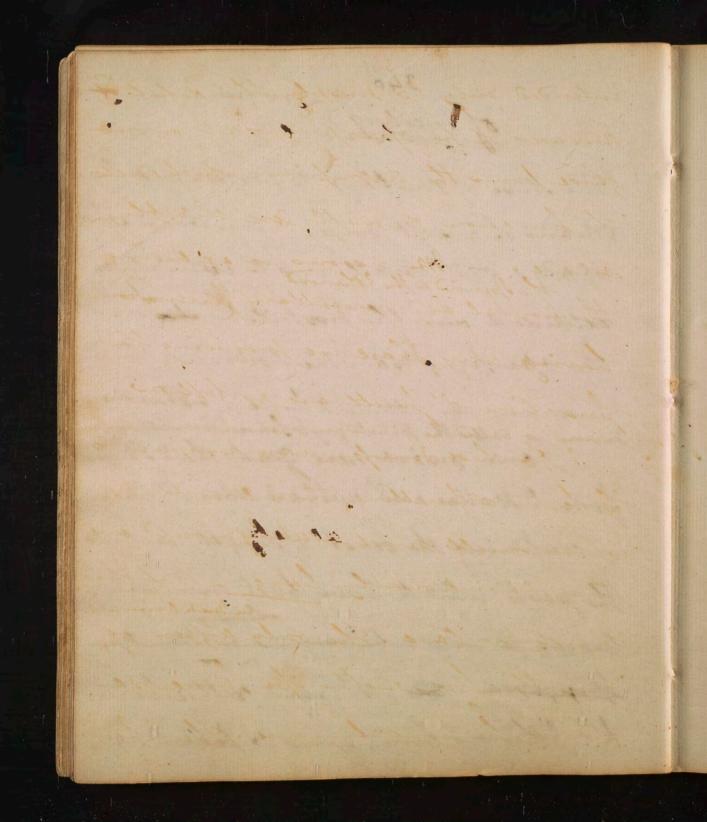




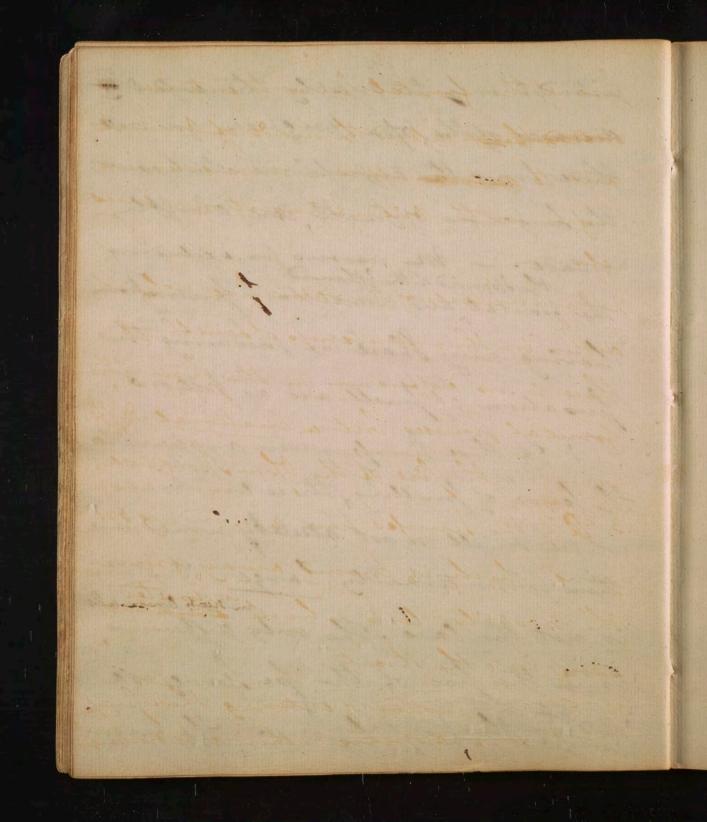




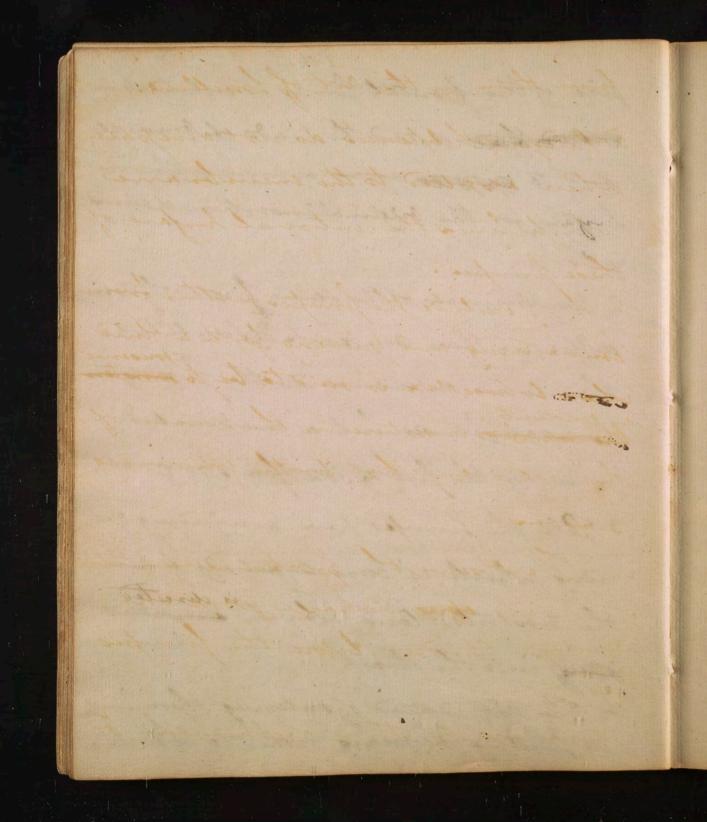
of melling Let: 13 The Surse of Smelling is performed by means of a doft pulpy memberane full of pour and small deplo which is extended over the westrils & do over the opa Spongiosa - the listum of the Inse and the ethnoid bone . I this men. : ir ane is called the pitutiony & show derivantember of and aware here Gent: that fliften from Detaller and twend other Physiologist in confining the Lense of Smell only to the pasts which have been inentioned. Robert of might be to the defen April 1 Its want to the listum & Ethinoid bone sums to brave been



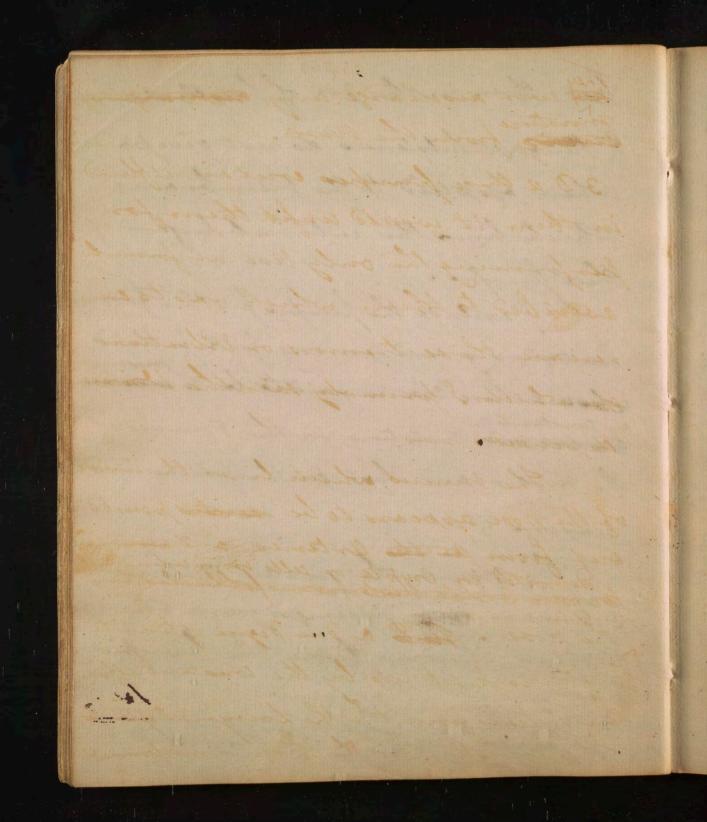
intended only to supply the defect diseases of the opa Sporgiosa - for ont these bones the imprepions which excite the Survation of Invell, Dose christly made. - My masons for excluding the Spenied the Ethonoid friends having any those in producing the finsation of fmell are as follow. I of these Jimpous were necessary to the Jense of fruelling, those arrivals which smell most alutely, would have them proportionably large - But this in such aminals is not the lase. The only difference is in the fire of the Upa Spongiosa and in the frontal finers. The larger



fire of the frontal finus is intended to the heads of animals and to good afford a more extensive Surface for the original insertion of mus: 2 In animals of the same fire which differ in their austeness of Smelling, there is no difference in the fire of the brontal finnses, but a material diffe. : rence in the fire of the Opa Spongissa. 3 All the Simples have a winding ope. : ming which is turned away from the mostrils, then which white they into the throat. 4 The air instead of entering these finishes in fmelling, appears ruther to be discharged



from them in the act of smelling. 5 Pungent hibstances do not girepain when applied to the encustrance which lines the interval hispace of these finispes. I exclude the pinepes further from containing and pouring forth a fluid presence who be horse use is said to be to wants the nose - and that for the following I We Observe the greatest quantity of mucus discharges from the nose in Children before the primpes are formed 2 In no position of the head do



moisture from the hose. 3 Did these finishes contain a fluid in them, it would unfit them for performing the only less we formuly ascribed to them which was to en: = crease those tramoss or bibrations on which I formuly said the Voice The muces which lines the inside of the nose appears to be well poured Dut from a de Artenies, and and and definitional deposited in Crypta of cells of in affinition of the hose . De a due degree of timuity in it is hepst up by the constant office : on of tears from the the larrymal grand. This moisture in the crose is indifferensable

I the hint of the Bose in middle life gradually, but dispipates its reperfluous in oppose I large in large of the poor ones who are not provided with hunsherthings generally introduce themselves to you by embling their hunds aerofo their nose. It The fense of bruelling is more universal, than that of taste, from its being more mufory be in Jonewing food. It begins in early life. so new bonin infants eyspens to be bed by this ferse to desire their mothers with, for they see thear imperfectly fortone. -time after birth. The viries which from the organ of Smell are larger than there which form the organ of taste.

to the act of fruelling. ~ V The internal part of the Deepels which ensures the finsibility of the not only never of the bose . Those leepels are very More humerous, but slender, here the facility with which they are neptioned from accidents & discuses, enous paidly in early life. — It stated the Jo the performance of huelling the inspiration of air is absolutely necessary. Is fruell is premised by an animal in whom the asperse Asteria has been nor in expiration, or a Impussion of inspire with which the his is and expiration.

and expiration.

inspired by the hose tends very much inspired by the hose tends very much to promote the effect of infreshions by the the bound which is the on the organs of fmell. - The thorter the

I The Sense of Smelling is further , rendered more aunte by thatting the month. I for the same reason - none of the efflowier are wasted in the month. Thumerous as the objects of this Jense are they have been divided by Linnous into y classes They are 1. The ambrosiae - as the Rose & must. 2 The foragrant as thidilly, & Jepamin . 3 aromatic as the spices. 4 allianous Es garlie Onions, enfragation. 5 Featit - as Valarian the popping the proposition. & 7 & nonseeurs as the gourd - & giony. The former of odors are much more extensive than has been supposed. They aim even from metals offers. In order to

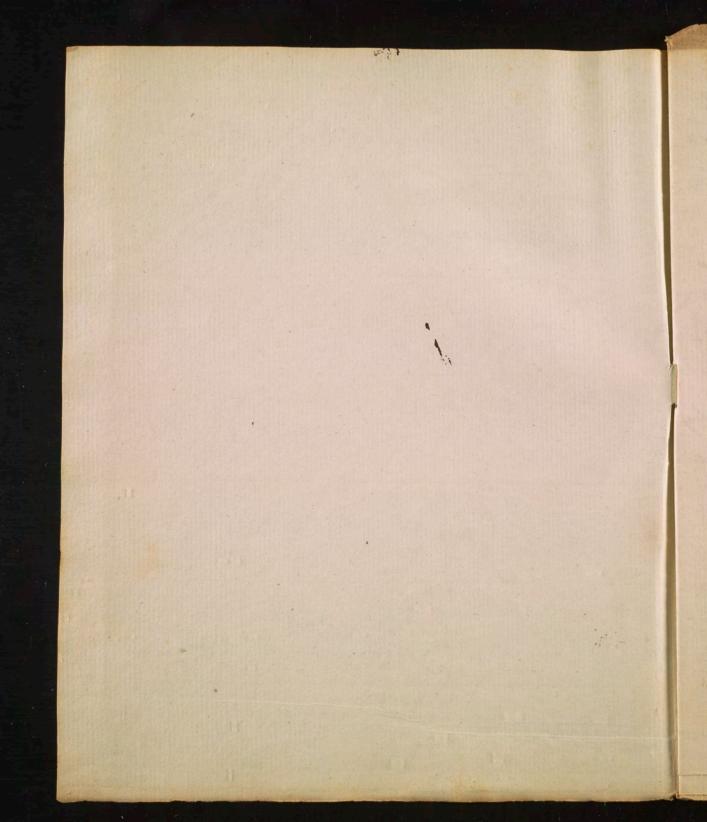
acts of inspiration, - the better for this purpose, - hence when we wish to smell most autily, we insitate the grey hound by a crumber of short Lynich arts of inspiration. _ The whole of the effluria of the odorous body is moreover concentrated by these their conveyed to the lungs. It I the vanity in the Objects of taste in supposed by Da Heid to depand upof certain mixtures formed by the sprion of the Bowns body with the mucus of the hose than the more independant than the state is not altogether 30 - It is tailutary in a small degree to the eyes - | home me find the is

produce odors, it is merepary the anatters that A create them should be a gas cons or bolatile thate. They are converted into this flats length friends first line faction las metals offenes) ferment?

Solution and mixture.

The malter which acts report the arrivers Often to Intilized, asto escape Observa--time, and almost to exceed Conseptions. a Lingle drops of the Oil of a dumash 2020 will often impart nuch a twell to a pint of "Iwest vil, as to sender the whole Enaps fragrant for several years. agrain of much has her known to performe a large rooms for twenty years. The Unine of the Shunk Often pervades whole townships in the Country . Pertrid odors offen cleave to woolen gaments for everal days. This I one experienced after viewing

This Sense, the more indysendant than that of taste, is not wholly to. It is tis-= hertary in a small degree to the eyes. Itis boros much aided by meering Which discharges inspipated Irruens, in igorales the Circulation in the nose, and rouses to its heres from an olla-- sional toupor. now Incing is Often mounted by a sudden glace of light, and hence we often find it induced by it, particularly in the morning (a time when Inviting is most necessary to perform all the Uses that have been ascribed to it. But there is Arriother. proof of the Councition between the Sense of I willing , and the organ of



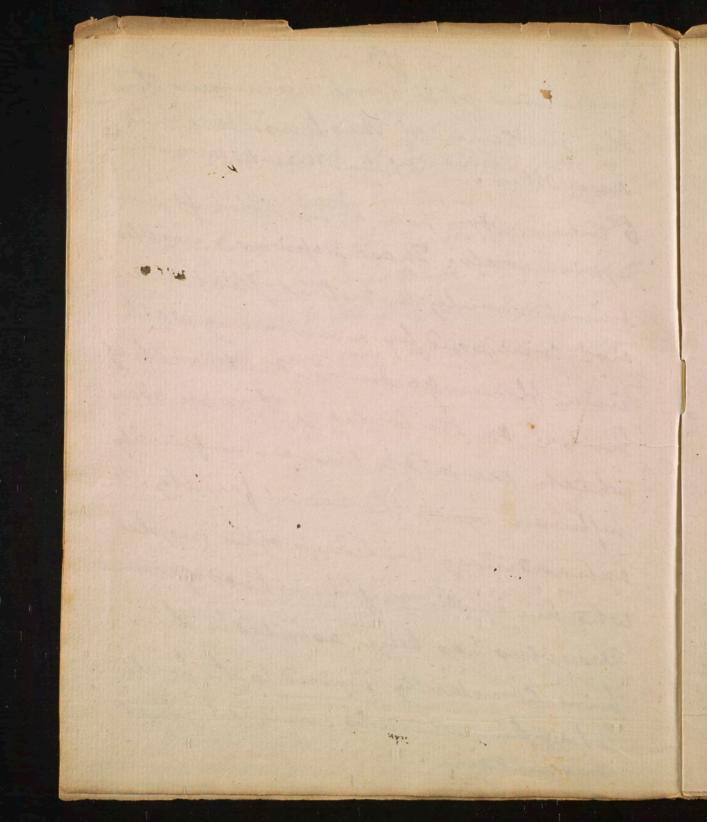
visions and that is Thong boos force f wall now mention to the first of fruthing. The affects some apistures to the fense of taste in during upon the naturale qualities of anany alments. It is often employed in judging of the quality of Wines. The madies muchant whom I before mentioned, conto distinguish the wine of every parishin the pland only by its brull. It is from its heb-= servicing to the taste that his love the whish for many articles of our food by that form of a Cold which is called long 2a. 2 It has Courtimes bunthe means of

V3 It is inhimately commented with the modulation of discussed, The bounds have downstimes been anould by the Smell of Colongrication, the Stomach by the Smell of praties enasters & the hings by the Books of to bace. But this not all - the brain - the rimes - the Hous: seles, and men the blood oupels have all been thrown into commotions by effermia acting upon the forthe fence of hulling. The as a proof of this, I shall hereafter mention that the Deliterious effects of some of those of= - Havia are prevented by closing the nostrils.

Supporting life. Thingen has often been Inspended by it . Low Baconsmentions five days wholly upon the aling garlis and Brions. V 4 It has an intimate Connection with mediume. Many remedies are applied to the whole hoods this the moriem of this line . These are chiefly bolatile, day arometic and fatio Substances. -It is wounded with the intelluteal powers of the mind particularly the imagination. This is to Misous that Knipeau has promounded the fense of Smelling to be the Institute organ of that family of the evind. It is a fret, that the appriations of ideas are

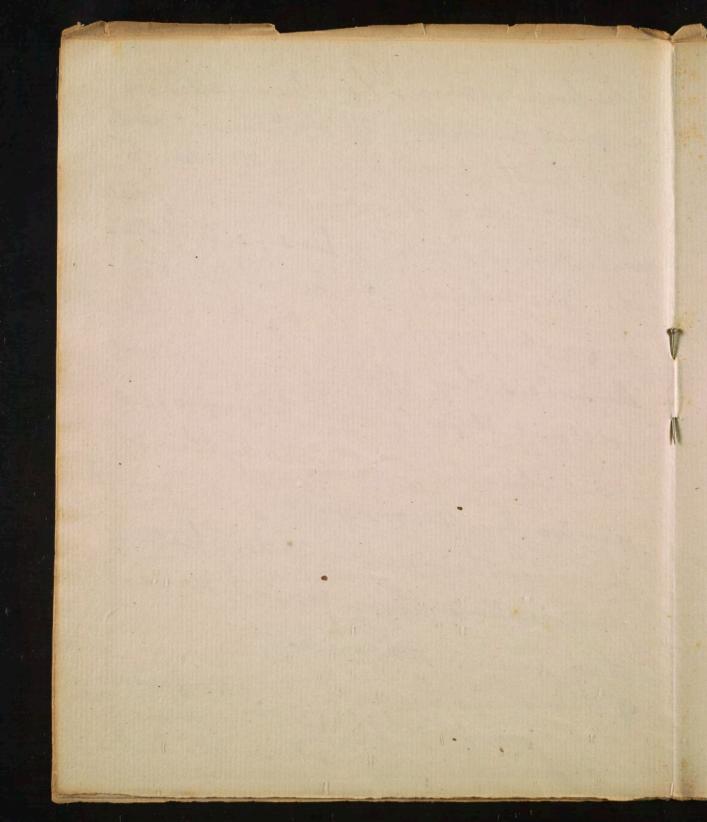
If even affects the papions. Dyers are revived toposition in dying red, the colon of which is enade by the tolution of the in in hitrie aid with a misture of lochincal, & of they are depreparable by they are depreparable by they are depreparable in the principal ingestient.

more prompt & more numerous this the motiem of this lense than # any Other. - I Lulen; dun; hter empriller. & Certain boors have a sensible influence upour morals. These papious mustbe unioursmouly turbulent, that are not composed by a morning walk in a flower garden in the mouth of have . On the Courtney, there are along which are said to have an unfriendly influence upon the enval faculty. The entraordinary wishedness of the Joupele who his in the nighbourhood of mount Presurius has been ascribed to thier being constantly exposed to the fruit of Sulphur which is consilted by that mountain.

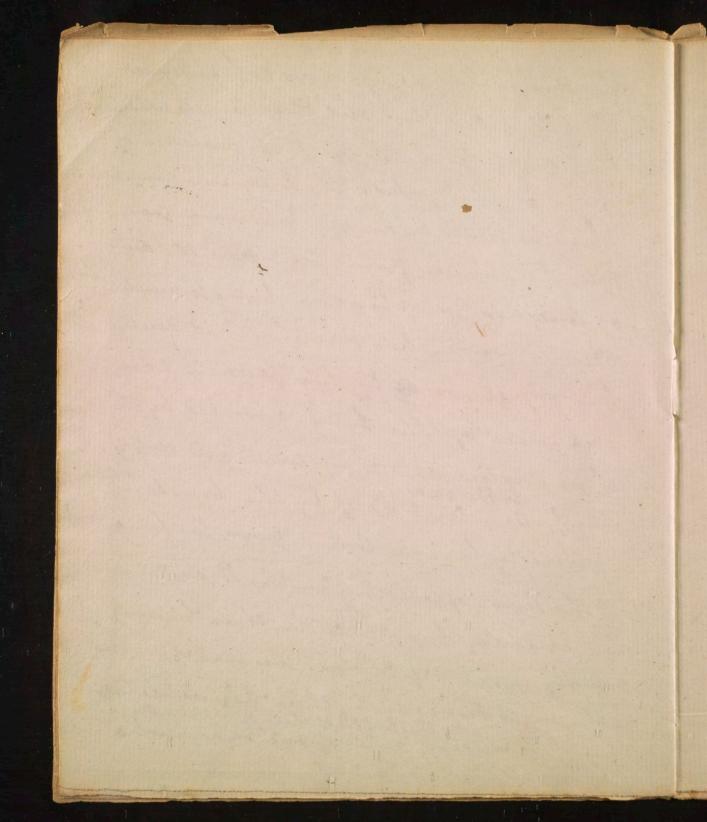


The long application of odors of way kind to the hore is apt to bring on The effects of the carthy oil in the kingdom og ava in induning Julique, are Inch, that the men who with Exosployed in extracting it from the carth, demand higher wages than Other sind of labouress. It is a happy lineumstance that over Inelling is connected with the Constant invalentary act of inspiration. The non by this means burnes a Centirel to the whole Lystern, and thereby Often delivers us from the consequences of inhaling sichning or deadly odors.

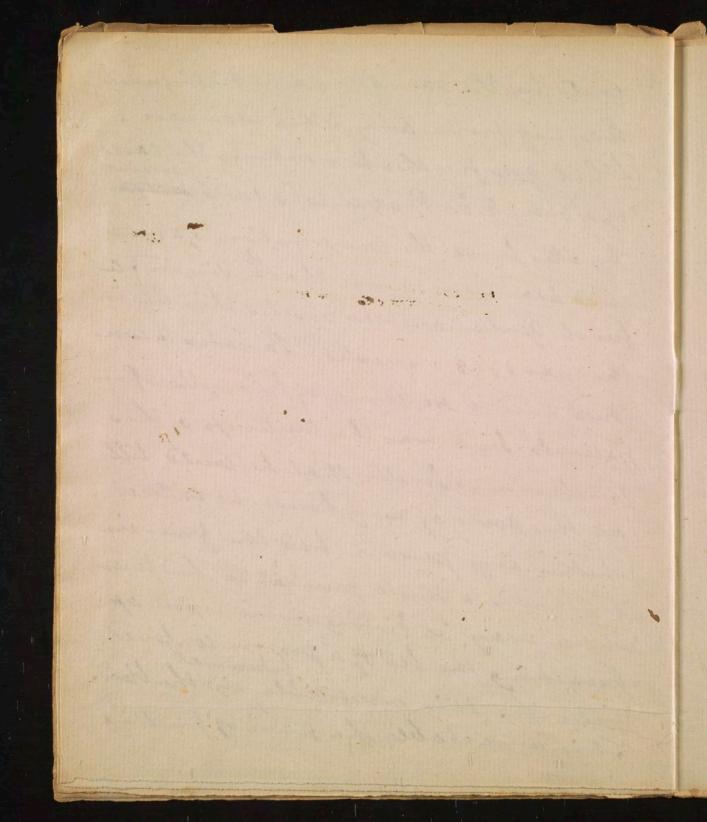
The books of moses have been called by a great military Officer " the best orderly book in the World" among Other proof of the truth of this enrousium, I shall mention astriking Doe, and thatis the Care which the Jews took to hum the fat, and the offats of the Animals they offered in Jacrifices, without their Carress thereby to pre-= went this being annoyed by this of= = fensive Smill, or affected by mulignant fruers by their papping into a state of putefaction about ground, Encarto this encomponents. De Persons who hie is the Country have a more aute ferse of fmell than persons who his in towns. niebrehr tetts us, that



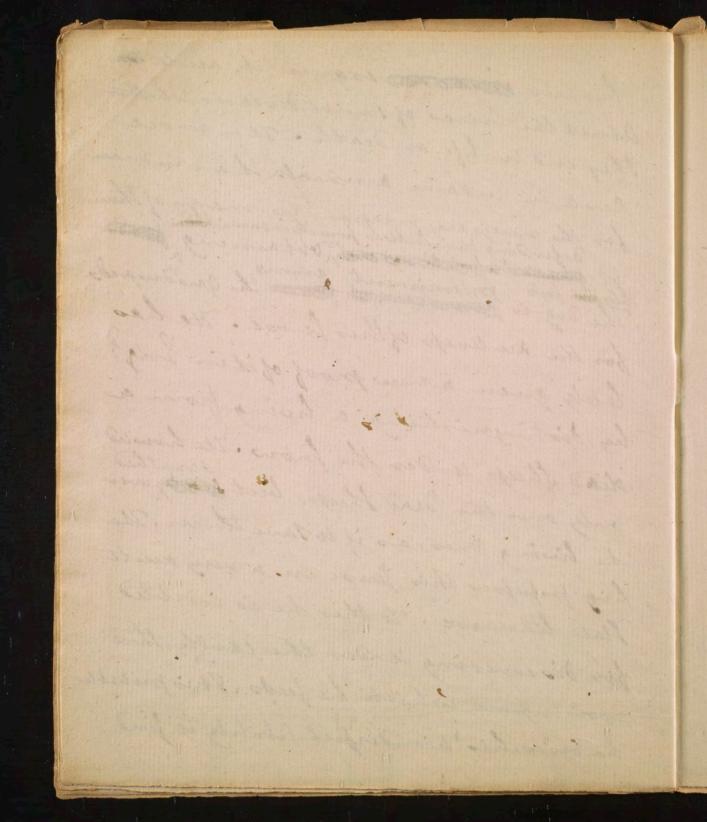
the arabians popepit in so high hope that they carrifind out their Carnels when they escape from them to the dislance of four or five miles. The Bramins laund har to stand near an European Soon After he arrives from fea upon the aut. of the his perspiration bring to much affected we by his aminal drit during his boyage, or & by his bows in con-- segumes of their being absorbed by the Lymphatics and thus conveyed out of by the bruch in the hystern instead of by the bruch with generally humas costive from failing. The tense of horlling in the Bramins is sendered thus acrets by this living wholly upon begetables. We not of persons who will distinguish their Requisitances from Strangers, and of one man who



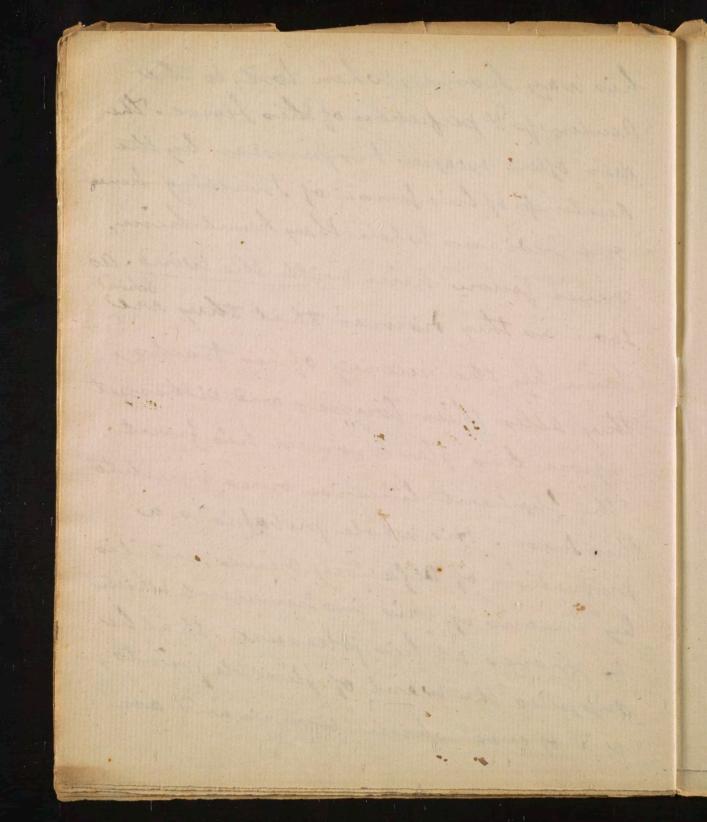
could by the same mans distinguish his wife from any other woman. LeCat goes fresher & mentions the case of a month in Prague who could histing - by this serve the pumpiration of wenter. = ried Warman from that In Virgin a french Gentleman who visited this city in the year 1798 regrested De Pascalis to con-- duct him to see some of his yellow fives patients. Such was the autimets of this gentlemans Smell, that he would tell at the door of wery house he entired, Whether any person had the frueren it. There is a broll punties to this fives which may be distinguished upon up: prouching the bed of a person confined with it. It is perceptible in the blood. It is runashable the Jense of puelling



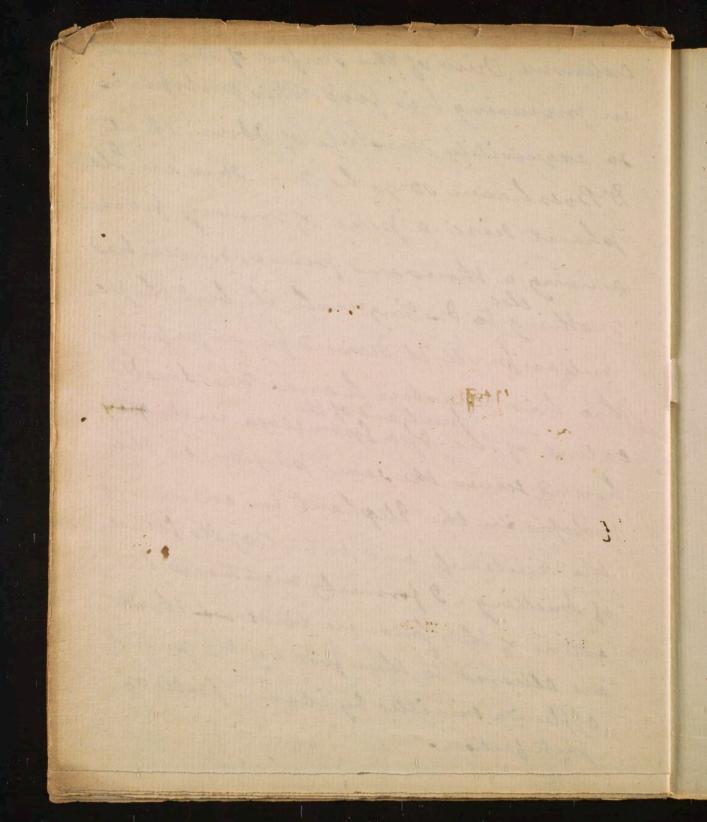
burnes was exprisitely and in about the Crises of sweral discuses whether they end in life or Death. It is more aut in certain animals than in man for the neres any purpose in many of theme Defending themselves possible arising to the Day is premiserent provide the gradueseds for the autiness of this fense. He has latety given a nu proof of it in Eng? by distinguishing a living from a dead Sheep under the from. The howled only over the Dead Shops, but wer the living Ones, as if to save them. The hog popepes this jense in a very aute Plate libruise. To this he is indebted for discovering under the carth, those roots upour which he feeds. It is probable he owes his wonderful ability to find



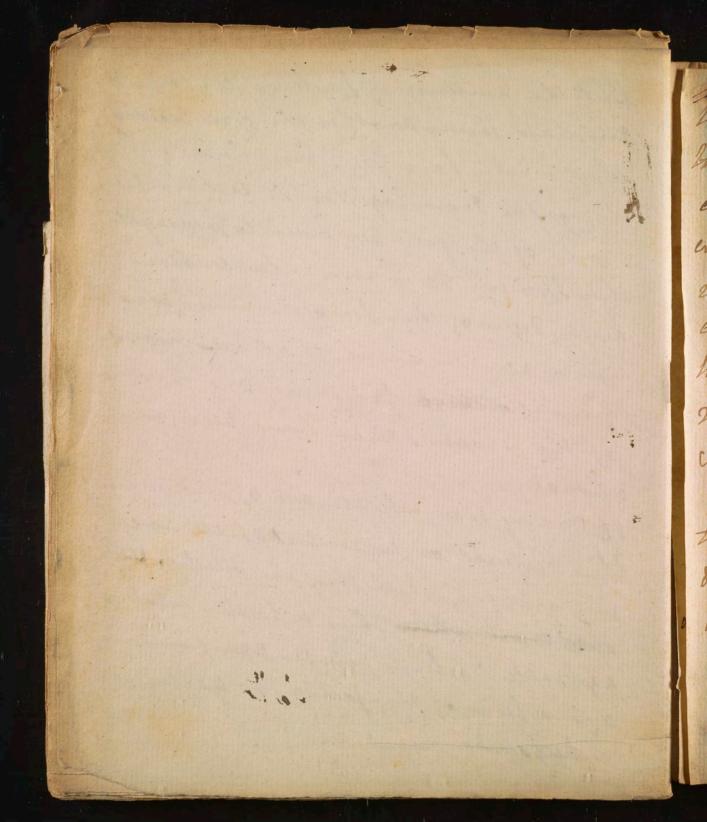
his way home, when lost, to the autiness & perfection of this Lesse. The dues often escapes his pressure by the austiness of his server of Immilling himes over Indians when they hunt him, never follow him with the wind. as Joon as they discover that they are him by the receivery of his tracks, they alter their Course, and eitherget upon his flank, or in his front. The Eliphant libraries owes muchto this Sense. His whole probapis is a production of Offactory nerves, and it is by means of this instrument which Le moves at his plusure, that he Jupplies the want of flexible joints, and of eyes which command an



Caterrine View of the Surface of the earth, in procuring his food. This probopis is so exquisitely sensible of Odors, that DiBoerhaave Jarys he ones saw an Ele-- phant seize a peix of money from among a thousand peies, which had nothing to distinguish it, but the per = culiar brull it derived from paping this his masters hand. The Sixed show the front and of the opa Spongiosa in the 199 hound, serves the same purpose as the probopis in the Elephant in enercasing the austines and extent of its sense of Imelling. I formerly mentioned the extent of this fense in birds whethat are alliered to thier food by the putrid Offluria enrilled by it in a flate of putufaction.



But the autency of buill in custain Arrivalo serves another purpose besides Those which have been mentioned. It brings the Jesus together at Tertain Jea. - sous of the year in order to propagate this Spices. It is remarkable tim ante Degree of this fersoe is never wasted upon any arrival that los norse. - grune it the for some one or enoue of the purposes that have been men-10 many Doss which are offenswein their natural or concentrated flate are very grateful when they are diluted, we this was to have a hille mush is agreable in hair powder & perfumery, and a Espire of Ofprafatida, or gardie in a bufstake.



The Casease of a putry frying whale in 5. The eighbourhood of Edin? The great extent of pretrid odors is thit more evines by certain birds being allured enany hundred enriles by them when emitted from Cassion. I shall apply these facts when I come to treat of the nestre and extent of those exhalitions Cohich produce bilives peuss. The of these fine partieles of matter which y thus affect the rose have buen been se discoursed by the enisews copies or by any Other instrument do as to be Obvious to was the Jense of Disiru. If the soon of the Sweetsented Should of De Carolina in was preserved 120 miles from the Shore of that a flate by the Green of a Ships that arrived ion Middle to from Canton in 1811 and the odor from the flavors to the sands of the Rio Jamiero was so indonse as to the sunds of the Rio Jamiero was so indonse as to the banks of the Rio Jamiero was so indonse as to

